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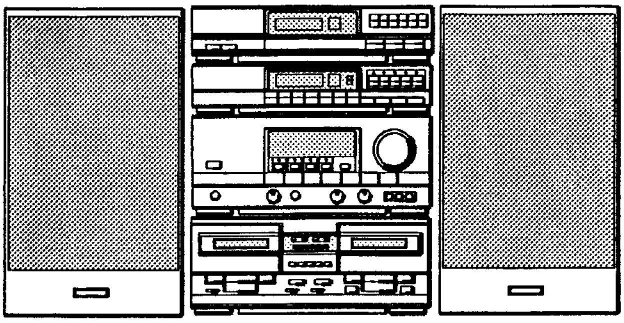
AIWA®

CU-DZ95M

SERVICE MANUAL



STEREO SYSTEM

- BASIC TAPE MECHANISM : TN−1800U
- TYPE. H,E,K,Z

CENTER SYSTEM	AMPLIFIER	CASSETTE DECK	TUNER	REMOTE CONTROLLER	SPEAKER	CD PLAYER (OPTIONAL)	TURNTABLE (OPTIONAL)
CU−DZ95M (H type)	MX−Z95M	FX−WZ959	TX−Z95	RC−TZ95MF	SX−Z959 ※1	※2 DX−Z95 ※3 DX−M90M	※4 PX−E80
(E,Z type)	MX−Z95M	FX−WZ959	TX−Z95	RC−TZ95ML	SX−Z95 ※1	※2 DX−Z95 ※3 DX−M90M	※4 PX−E80
(K type)	MX−Z95M	FX−WZ95	TX−Z95	RC−TZ95ML	SX−Z95 ※1	※2 DX−Z95 ※3 DX−M90M	※4 PX−E80

※1	CENTER SYSTEM dose not have ※1.
※2	As to the service information of DX−Z95, see the individual service manual of DX−Z95.
※3	As to the service information of DX−M90M, see the individual service manual of DX−M90M.
※4	As to the service information of PX−E80, see the individual service manual of PX−E80.

AIWA Co., Ltd. Tokyo Japan

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SPECIFICATIONS

TX – Z95

< FM section >

Frequency range	87.5MHz to 108MHz
Usable sensitivity (IHF)	1.6 μ V (75 ohms) 15.2dBf
Alternate channel selectivity	50dB (± 400kHz)
Signal-to-noise ratio	70dB (STEREO) 78dB (MONO)
Image response ratio	45dB
Frequency response	20Hz to 15kHz (+0.5dB, –3dB)
Stereo separation	40dB at 1kHz
Antenna	75 ohms (unbalanced)

< AM (MW) section >

Frequency range	YH 530kHz to 1,602kHz YE,YK,YZ 522kHz to 1,611kHz
Usable sensitivity	300 μ V/m
Selectivity	23dB (9kHz)
Signal-to-noise ratio	53dB (100dB input)
Antenna	Loop antenna

< LW section > (E,K,Z only)

Frequency range	144kHz to 290kHz
Usable sensitivity	1,000 μ V/m
Antenna	Loop antenna

< Timer section and general >

Program timer	"Once"and/or "every"
Sleep timer	Capable of setting in 10-minute decrements,99 minutes maximum
Dimensions	360 (W) × 78 (H) × 308 (D) mm
Weight	2.3kg

AMPLIFIER MX-Z95M (with the graphic equalizer)

Power output	H : 150W + 150W (6 ohms, T.H.D. 10 % RMS) E,K : 100W + 100W (6 ohms, T.H.D. 10 % RMS) Z : 80W + 80W (6 ohms, T.H.D. 10 % RMS)
Input sensitivity (load impedance)	PHONO,VIDEO 1/DAT,VIDEO 2, VEDEO 3 IN (AUDIO) : H : 260mV (47kohms) E,K,Z : 210mV (47kohms)
Signal-to-noise ratio	90dB (CD/DAT DIRECT)
Power requirements	H : 120V / 220V / 240V AC , switchable, 50/60Hz E,Z : 220V AC, 50Hz K : 240V AC, 50Hz
Power consumption	H : 220W (system total 240W) E,K,Z : 380W (system total 410W)
Dimensions	360 (W) × 216 (H) × 324 (D) mm
Weight	H : 9.3kg E,K,Z : 8.5kg

CASSETTE DECK FX-WZ959/FX-WZ95

Track format	4 tracks, 2 channels
Frequency response	Metal tape : 20 – 17,000Hz (only for playback) CrO_2 tape : 20 – 16,000Hz Normal tape : 20 – 15,000Hz
Signal-to-noise ratio	70dB (DOLBY NR C-ON, CrO_2 tape, peak level)
Wow and flutter	0.09 % (WRMS)
Tape speed	4.8cm/sec.(1-7/8 ips) 8.6cm/sec.(high speed)
Rewind time	120 sec.(C-60)
Fast forward time	120 sec.(C-60)
Recording system	AC bias
Erase system	AC erase
Motor	DC servomotor × 2
Heads	Playback head × 1 (deck 1) Reccord/playback/erase head × 1 (deck 2)
Dimensions	360 (W) × 138 (H) × 309 (D) mm
Weight	3.9kg

SPEAKER SX-Z959 (H model)

Cabinet type	Bass reflex
Speaker	220mm cone type woofer 60mm cone type tweeter 30mm ceramic type super tweeter
Impedance	6 ohms
Output sound pressure level	89dB/W/m
Frequency response	42Hz to 20kHz
Dimensions	296 (W) × 550 (H) × 230 (D) mm
Weight	7.0kg

SPEAKER SX-Z95 (E,K,Z models)

Cabinet type	Bass reflex
Speaker	220mm cone type woofer 60mm cone type tweeter 30mm ceramic type super tweeter
Impedance	6 ohms
Output sound pressure level	89dB/W/m
Frequency response	42Hz to 20kHz
Dimensions	290 (W) × 550 (H) × 230 (D) mm
Weight	7.0kg

COMMON SECTION

Power requirements	H : 120V / 220V / 240V AC , switchable, 50/60Hz E,Z : 220V AC, 50/60Hz K : 240V AC, 50/60Hz
Dimensions	H : 952 (W) × 550 (H) × 324 (D) mm (vertical placement) 1,312 (W) × 550 (H) × 324 (D) mm (horizontal placement) E,K,Z : 940 (W) × 550 (H) × 324 (D) mm (vertical placement) 1,300 (W) × 550 (H) × 324 (D) mm (herizontal placement)
Weight	H : 29.5kg E,K,Z : 28.7kg

- Design and specifications are subject to change without notice.

- Dolby noise reduction manufactured under licence from Dolby Laboratories Licensing Corporation.
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- Under license from BBE Sound, Inc.

MODEL NO.

MX – Z95M

ELECTRICAL MAIN PARTS LIST (MX – Z95M)

REF. NO.	PART NO.	DESCRIPTION
=== IC ===		
	87-001-443-010	IC, ASP-8801
	87-001-440-010	IC, BA15218N
	87-001-868-010	IC, BU4015B
	87-001-347-010	IC, HD14051BP
	87-001-350-010	IC, HD14052BP
	87-001-530-010	IC, LA3607
	89-VP5-630-010	IC, LC6568H-4267
	87-001-528-010	IC, LC7522
	87-020-758-010	IC, NJM2068SD
	87-001-396-010	IC, STK4182-2(E, K, Z)
	87-001-902-010	IC, STK4221-2(H)
	87-020-943-010	IC, TC9176P
	87-001-869-010	IC, XR-1091
=== TRANSISTOR ===		
	87-026-462-010	TRANSISTOR, 2SC1740S(RS)
	87-026-500-010	TRANSISTOR, 2SD2144S, UV
	89-110-155-010	TRANSISTOR, 2SA1015GR
	89-112-632-010	TRANSISTOR, 2SA1253N, OR(E, K, Z)
	89-213-292-010	TRANSISTOR, 2SB1329Q
	89-213-702-010	TRANSISTOR, 2SB1370E(H)
	89-309-456-010	TRANSISTOR, 2SC945LP
	89-318-155-010	TRANSISTOR, 2SC1815GR
	89-406-555-010	TRANSISTOR, 2SD655E
	87-026-219-010	TRANSISTOR, DTA144ES
	89-026-375-010	TRANSISTOR, RN2202
	87-026-377-010	TRANSISTOR, RN2204
=== DIODE ===		
	82-596-799-010	DIODE, 1N4002
	87-001-559-010	DIODE, 1SS131
	87-020-465-010	DIODE, 1SS133
	87-001-820-010	DIODE, GP15B(E, K, Z)
	87-001-729-010	DIODE, S5VB20
	87-027-346-010	DIODE, ZENER HZ11A2L
	87-027-680-010	DIODE, ZENER HZ11C1L
	87-027-661-010	DIODE, ZENER HZ30-2L
	87-027-301-010	DIODE, ZENER HZ3A1
	87-027-332-010	DIODE, ZENER HZ6B1L
	87-027-584-010	DIODE, ZENER HZ9C1L
	87-027-702-010	DIODE, ZENER, HZ6C2L
=== MAIN CIRCUIT BOARD SECTION ===		
C500	★87-018-134-010	CAP, CERA-SOL 0.01-16 Y
C501	★87-010-693-010	CAP, ELECT 8200-63(H)
C501	★87-010-756-010	CAP, ELECT 6800-50(E, K, Z)
C502	★87-010-693-010	CAP, ELECT 8200-63(H)
C502	★87-010-756-010	CAP, ELECT 6800-50(E, K, Z)
C503	★87-010-374-010	CAP, ELECT 47-10
C504	★87-010-263-010	CAP, ELECT 100-10
C505	★87-010-403-010	CAP, ELECT 3.3-50 SME
C509	★87-010-430-010	CAP, ELECT 100-63(H)
C509	★87-010-247-010	CAP, ELECT 100-50 SME(E, K, Z)
C510	★87-010-374-010	CAP, ELECT 47-10
C511	★87-010-374-010	CAP, ELECT 47-10
C521	★87-010-384-010	CAP, ELECT 100-25 SME
C522	★87-010-384-010	CAP, ELECT 100-25 SME
C523	★87-010-385-010	CAP, ELECT 220-25
C531	★87-010-384-010	CAP, ELECT 100-25 SME
C551	★87-010-390-010	CAP, ELECT 3300-25 SME
C553	★87-010-382-010	CAP, ELECT 22-25 SME
C554	★87-010-381-010	CAP, ELECT 330-16 SME
C555	★87-012-341-010	CAP, ELECT 10-16 SXJ
C556	★87-018-134-010	CAP, CERA-SOL 0.01-16 Y
C557	★87-010-374-010	CAP, ELECT 47-10
C558	★87-010-263-010	CAP, ELECT 100-10
C601	★87-018-115-010	CAP, CERA-SOL 47P-50 SL
C602	★87-018-115-010	CAP, CERA-SOL 47P-50 SL
C603	★87-010-404-010	CAP, ELECT 4.7-50 SME
C604	★87-010-404-010	CAP, ELECT 4.7-50 SME
C605	★87-010-404-010	CAP, ELECT 4.7-50 SME
C606	★87-010-404-010	CAP, ELECT 4.7-50 SME
C607	★87-010-374-010	CAP, ELECT 47-10
C647	★87-018-125-010	CAP, CERA-SOL 330P-50 B
C651	★87-018-131-010	CAP, CERA-SOL 1000P-50 B
C652	★87-018-127-010	CAP, CERA-SOL 470P-50 B
C653	★87-010-404-010	CAP, ELECT 4.7-50 SME
C654	★87-010-546-010	CAP, ELECT 0.33-50 SME
C755	★87-018-103-010	CAP, CERA-SOL 8.2P-50 SL
C756	★87-018-103-010	CAP, CERA-SOL 8.2P-50 SL
C757	★87-010-404-010	CAP, ELECT 4.7-50 SME
C758	★87-010-404-010	CAP, ELECT 4.7-50 SME
C807	★87-010-421-010	CAP, ELECT 4.7-50 5L
C808	★87-010-421-010	CAP, ELECT 4.7-50 5L
C809	★87-010-404-010	CAP, ELECT 4.7-50 SME
C810	★87-010-404-010	CAP, ELECT 4.7-50 SME
C815	★87-010-405-010	CAP, ELECT 10-50 SME
C816	★87-010-405-010	CAP, ELECT 10-50 SME
C819	★87-010-404-010	CAP, ELECT 4.7-50 SME
C820	★87-010-404-010	CAP, ELECT 4.7-50 SME
C821	★87-010-401-010	CAP, ELECT 1-50 SME
C822	★87-010-404-010	CAP, ELECT 4.7-50 SME
C823	★87-010-401-010	CAP, ELECT 1-50 SME
C825	★87-010-236-010	CAP, ELECT 1000-10
C826	★87-010-236-010	CAP, ELECT 1000-10
C827	★87-018-131-010	CAP, CERA-SOL 1000P-50 B
C828	★87-018-131-010	CAP, CERA-SOL 1000P-50 B
C829	★87-010-381-010	CAP, ELECT 330-16 SME
C851	★87-010-404-010	CAP, ELECT 4.7-50 SME
C852	★87-010-404-010	CAP, ELECT 4.7-50 SME
C853	★87-018-124-010	CAP, CERA-SOL 270P-50 B
C854	★87-018-124-010	CAP, CERA-SOL 270P-50 B
C855	★87-010-382-010	CAP, ELECT 22-25 SME
C856	★87-010-382-010	CAP, ELECT 22-25 SME
C857	★87-018-140-010	CAP, CERA-SOL 2.2P-50 CH
C858	★87-018-140-010	CAP, CERA-SOL 2.2P-50 CH
C859	★87-010-260-010	CAP, ELECT 47-25 SME
C860	★87-010-260-010	CAP, ELECT 47-25 SME
C861	★87-010-544-010	CAP, ELECT 0.1-50
C862	★87-010-544-010	CAP, ELECT 0.1-50
C863	★87-010-544-010	CAP, ELECT 0.1-50
C864	★87-010-544-010	CAP, ELECT 0.1-50
C865	★87-010-247-010	CAP, ELECT 100-50 SME(E, K, Z)
C865	★87-010-430-010	CAP, ELECT 100-63(H)
C867	★87-018-123-010	CAP, CERA-SOL 220P-50B
C868	★87-018-123-010	CAP, CERA-SOL 220P-50B
C901	★87-010-221-010	CAP, ELECT 470-10
C902	★87-010-221-010	CAP, ELECT 470-10
C903	★87-010-221-010	CAP, ELECT 470-10
C904	★87-010-236-010	CAP, ELECT 1000-10
C919	★87-010-263-010	CAP, ELECT 100-10
C951	★87-018-131-010	CAP, CERA-SOL 1000P-50 B
C952	★87-018-209-010	CAP, CERA-SOL 0.1-50 F
⚠FR501	87-029-096-010	PES, FUSE 100 1/2W(H)
⚠FR501	87-029-030-010	RES, FUSE 82 1/4W(E, K, Z)
J951	87-009-204-010	JACK, 6.3 YKB21-5012(MIC)
J952	81-669-655-010	JACK, 6.3 W/S AU(PHONES)

REF. NO.	PART NO.	DESCRIPTION
J953-1	★89-VP5-639-010	JACK, PIN 6P AV(VIDEO-1 IN)
J953-2	+++	JACK, PIN 6P AV(VIDEO-1 OUT)
J953-3	+++	JACK, PIN 6P AV(VIDEO-2 IN)
J953-4	+++	JACK, PIN 6P AV(MONITOR OUT)
J953-5	+++	JACK, PIN 6P AV(VIDEO-1/DAT-L)
J953-6	+++	JACK, PIN 6P AV(VIDEO-1/DAT-R)
J954-1	★89-VP5-638-010	JACK PIN 6P EARTH(PHONO-L)
J954-2	+++	JACK PIN 6P EARTH(PHONO-R)
J954-3	+++	JACK PIN 6P EARTH(VIDEO-1/DAT-L)
J954-4	+++	JACK PIN 6P EARTH(VIDEO-1/DAT-R)
J954-5	+++	JACK PIN 6P EARTH(VIDEO-2-L)
J954-6	+++	JACK PIN 6P EARTH(VIDEO-2-R)
J955	★87-009-065-010	CONNECTOR, 15P FG(1. TUNER)
J956	★87-009-063-010	CONNECTOR, 11P FG(2. CD)
J957	★87-049-851-010	JACK, PIN 2P(SURROUND SPEAKERS)
J958	★87-033-197-010	TERMINAL, SP-4P 2(SPEAKERS)
L951	★87-005-366-010	COIL, 1UH
L952	★87-005-366-010	COIL, 1UH
L953	★87-003-098-010	COIL, 2. 2UH
R525	★87-022-050-010	RES, MF 1W-0. 22J
R526	★87-022-050-010	RES, MF 1W-0. 22J
R529	★87-022-050-010	RES, MF 1W-0. 22J
R530	★87-022-050-010	RES, MF 1W-0. 22J
RY551	87-045-285-010	RELAY, VB12MB
RY951	87-045-307-010	RELAY, LZ-12WM-K

::: FRONT CIRCUIT BOARD SECTION :::

REF. NO.	PART NO.	DESCRIPTION
C101	★87-010-405-010	CAP, ELECT 10-50 SME
C102	★87-010-405-010	CAP, ELECT 10-50 SME
C151	★87-010-405-010	CAP, ELECT 10-50 SME
C152	★87-018-134-010	CAP, CERA-SOL 0. 01-16 Y
C153	★87-010-807-010	CAP, ELECT 330-6. 3
C154	★87-010-421-010	CAP, ELECT 4. 7-50 SME
C156	★87-010-405-010	CAP, ELECT 10-50 SME
C157	★87-010-234-010	CAP, ELECT 47-16 5L
C158	★87-018-127-010	CAP, CERA-SOL 470P-50 B
C159	★87-018-209-010	CAP, CERA-SOL 0. 1-50F
C160	★87-018-209-010	CAP, CERA-SOL 0. 1-50F
C161	★87-018-134-010	CAP, CERA-SOL 0. 01-16Y
C162	★87-018-131-010	CAP, CERA-SOL 1000P
C201	★87-018-131-010	CAP, CERA-SOL 1000P
C202	★87-018-131-010	CAP, CERA-SOL 1000P
C251	★87-010-404-010	CAP, ELECT 4. 7-50 5L
C252	★87-010-404-010	CAP, ELECT 4. 7-50 5L
C253	★87-010-404-010	CAP, ELECT 4. 7-50 5L
C254	★87-010-234-010	CAP, ELECT 47-16 5L
C255	★87-018-134-010	CAP, CERA-SOL 0. 01-16 Y
C256	★87-018-195-010	CAP, CERA-SOL 1200P
C257	★87-010-401-010	CAP, ELECT 1-50 SME
C259	★87-018-209-010	CAP, CERA-SOL 0. 1-50F
C261	★87-018-121-010	CAP, CERA-SOL 150P-50 B
C262	★87-018-121-010	CAP, CERA-SOL 150P-50 B
C301	★87-010-404-010	CAP, ELECT 4. 7-50 SME
C302	★87-010-404-010	CAP, ELECT 4. 7-50 SME
C303	★87-018-127-010	CAP, CERA-SOL 470P-50 B
C304	★87-018-127-010	CAP, CERA-SOL 470P-50 B
C307	★87-010-417-010	CAP, ELECT 2. 2-35 5L
C308	★87-010-402-010	CAP, ELECT 2. 2-50 SME
C311	★87-010-071-010	CAP, ELECT 1-50 5L
C312	★87-010-401-010	CAP, ELECT 1-50 SME
C315	★87-010-068-010	CAP, ELECT 0. 22-50 5L
C316	★87-010-545-010	CAP, ELECT 0. 22-50 SME
C317	★87-018-201-010	CAP, CERA-SOL 5600P
C318	★87-018-201-010	CAP, CERA-SOL 5600P
C321	★87-018-132-010	CAP, CERA-SOL 2200P-16 X
C322	★87-018-132-010	CAP, CERA-SOL 2200P-16 X
C325	★87-018-129-010	CAP, CERA-SOL 680P
C326	★87-018-129-010	CAP, CERA-SOL 680P
C329	★87-018-125-010	CAP, CERA-SOL 330P-50 B
C330	★87-018-125-010	CAP, CERA-SOL 330P-50 B
C331	★87-018-133-010	CAP, CERA-SOL 4700P-16 X
C332	★87-018-133-010	CAP, CERA-SOL 4700P-16 X
C333	★87-010-075-010	CAP, ELECT 10-16 5L
C334	★87-010-248-010	CAP, ELECT 220-10 SME
C335	★87-018-134-010	CAP, CERA-SOL 0. 01-16 Y
C338	★87-010-405-010	CAP, ELECT 10-50
C401	★87-010-401-010	CAP, ELECT 1-50 SME
C402	★87-010-401-010	CAP, ELECT 1-50 SME
C403	★87-010-401-010	CAP, ELECT 1-50 SME
C404	★87-010-401-010	CAP, ELECT 1-50 SME
C405	★87-018-130-010	CAP, CERA-SOL 820P
C406	★87-018-130-010	CAP, CERA-SOL 820P
C411	★87-018-123-010	CAP, CERA-SOL 220P-50 B
C412	★87-018-123-010	CAP, CERA-SOL 220P-50 B
C415	★87-010-545-010	CAP, ELECT 0. 22-50 SME
C416	★87-010-545-010	CAP, ELECT 0. 22-50 SME
C417	★87-010-401-010	CAP, ELECT 1-50 SME
C418	★87-010-401-010	CAP, ELECT 1-50 SME
C419	★87-018-109-010	CAP, CERA-SOL 22P-50 SL
C420	★87-018-109-010	CAP, CERA-SOL 22P-50 SL
C421	★87-010-071-010	CAP, ELECT 1-50 5L
C422	★87-010-401-010	CAP, ELECT 1-50 SME
C423	★87-018-134-010	CAP, CERA-SOL 0. 01-16 Y
C424	★87-018-134-010	CAP, CERA-SOL 0. 01-16 Y
C425	★87-010-421-010	CAP, ELECT 4. 7-50 SME
C426	★87-010-421-010	CAP, ELECT 4. 7-50 SME
C433	★87-010-071-010	CAP, ELECT 1-50 5L
C434	★87-010-071-010	CAP, ELECT 1-50 5L
C435	★87-010-071-010	CAP, ELECT 1-50 5L
C436	★87-010-401-010	CAP, ELECT 1-50 SME
C441	★87-010-234-010	CAP, ELECT 47-16 5L
C443	★87-010-263-010	CAP, ELECT 100-10
C457	★87-010-401-010	CAP, ELECT 1-50 SME
CF151	★87-030-167-010	VIB, CER CST4. 0MHZ
FL101	89-VP5-625-010	FL, 9BT66GK(AMP)
FL102	89-VP5-626-010	FL, BG-762GK(GEQ)
J201-1	★89-VP5-637-010	JACK, PIN 3P AU(VIDEO-3 L)
J201-2	+++	JACK, PIN 3P AU(VIDEO-3 R)
J201-3	+++	JACK, PIN 3P AU(VIDEO-3 V)
L151	★87-005-372-010	COIL, S 1MMH
LED1	87-001-123-010	LED, SLZ-981C-02(1/HEAVY)
LED2	87-001-123-010	LED, SLZ-981C-02(2/SOFT)
LED3	87-001-123-010	LED, SLZ-981C-02(3/VOCAL)
LED4	87-001-123-010	LED, SLZ-981C-02(4/HS)
LED5	87-001-123-010	LED, SLZ-981C-02(5/CLEAR)
LED6	87-001-123-010	LED, SLZ-981C-02(MANUAL)
LED7	87-001-123-010	LED, SLZ-981C-02(PROGRAM)
LED8	87-001-123-010	LED, SLZ-981C-02(CD/DAT DIRECT)
LED9	87-001-123-010	LED, SLZ-981C-02(SURROUND)
LED10	87-001-123-010	LED, SLZ-981C-02(BBE)
LED11	87-001-123-010	LED, SLZ-981C-02(DIRECT REC.)
RE101	89-VP5-634-010	ENCODER, DIA16WN(VOLUME UP/DOWN)
S1	87-036-142-010	TACT SW(1)
S2	87-036-142-010	TACT SW(2)
S3	87-036-142-010	TACT SW(3)
S4	87-036-142-010	TACT SW(4)
S5	87-036-142-010	TACT SW(5)

REF. NO.	PART NO.	DESCRIPTION
S6	87-036-142-010	TACT SW(HEAVY)
S7	87-036-142-010	TACT SW(SOFT)
S8	87-036-142-010	TACT SW(VOCAL)
S9	87-036-142-010	TACT SW(HS)
S10	87-036-142-010	TACT SW(CLEAR)
S11	87-036-142-010	TACT SW(60HZ△)
S12	87-036-142-010	TACT SW(150HZ△)
S13	87-036-142-010	TACT SW(350HZ△)
S14	87-036-142-010	TACT SW(1KHZ△)
S15	87-036-142-010	TACT SW(2.5KHZ△)
S16	87-036-142-010	TACT SW(6KHZ△)
S17	87-036-142-010	TACT SW(15KHZ△)
S18	87-036-142-010	TACT SW(60HZ▽)
S19	87-036-142-010	TACT SW(150HZ▽)
S20	87-036-142-010	TACT SW(350HZ▽)
S21	87-036-142-010	TACT SW(1KHZ▽)
S22	87-036-142-010	TACT SW(2.5KHZ▽)
S23	87-036-142-010	TACT SW(6KHZ▽)
S24	87-036-142-010	TACT SW(15KHZ▽)
S25	87-036-142-010	TACT SW(GEQ ON/OFF)
S26	87-036-142-010	TACT SW(DISPLAY)
S27	87-036-142-010	TACT SW(CALIBRATION)
S28	87-036-142-010	TACT SW(MEMORY)
S29	87-036-142-010	TACT SW(TAPE)
S30	87-036-142-010	TACT SW(TUNER)
S31	87-036-142-010	TACT SW(PHONO)
S32	87-036-142-010	TACT SW(CD)
S33	87-036-142-010	TACT SW(VIDEO-1/DAT)
S34	87-036-142-010	TACT SW(VIDEO-2)
S35	87-036-142-010	TACT SW(VIDEO-3)
S36	87-036-142-010	TACT SW(CD/DAT DIRECT)
S37	87-036-142-010	TACT SW(SURROUND)
S38	87-036-142-010	TACT SW(BBE)
S39	87-036-142-010	TACT SW(DIRECT REC.)
S40	87-036-142-010	TACT SW(MUTING/WAKE UP)
S41	87-036-142-010	TACT SW(POWER, STANDBY/ON)

REF. NO.	PART NO.	DESCRIPTION
SFR401	★87-021-745-010	SFR 47K
SFR402	★87-021-745-010	SFR 47K
VR201	89-VP5-635-010	VOLUME 10KA(MIC MIXING)
VR202	89-VP5-636-010	VOLUME 500KA(DSL)
VR401	81-689-623-010	VOLUME 50KB(BBE)

=== POWER CIRCUIT BOARD-1 SECTION ===

REF. NO.	PART NO.	DESCRIPTION
⚠	87-033-213-010	FUSE CLAMP
⚠F2	87-035-366-010	FUSE, T2.5A(H)
⚠F2	87-035-139-010	FUSE, T2.5A(E, K, Z)
⚠R1	87-022-184-010	RES, MF 0.33-1W
⚠R2	87-022-184-010	RES, MF 0.33-1W

=== POWER CIRCUIT BOARD-2 SECTION (E, K, Z) ===

REF. NO.	PART NO.	DESCRIPTION
⚠	87-033-213-010	FUSE CLAMP
⚠F1	87-035-366-010	FUSE, T2.5A

=== POWER CIRCUIT BOARD-3 SECTION (H) ===

REF. NO.	PART NO.	DESCRIPTION
⚠	87-033-213-010	FUSE CLAMP
⚠F3	87-035-191-010	FUSE, T3.15A
⚠F4	87-035-191-010	FUSE, T3.15A

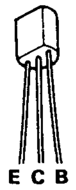
=== POWER CIRCUIT BOARD-4 SECTION(H) ===

REF. NO.	PART NO.	DESCRIPTION
⚠S101	87-036-173-010	SLIDE SW(AC VOLTAGE)

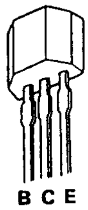
=== MISCELLANEOUS ===

REF. NO.	PART NO.	DESCRIPTION
⚠	★87-085-184-010	CORD BUSHING(H)
⚠	87-085-185-010	CORD BUSHING(E, K, Z)
⚠	87-034-749-010	AC CORD ASSY, H(H)
⚠	87-034-781-010	AC CORD ASSY, E(E, Z)
⚠	87-034-592-010	AC CORD ASSY, K(K)
⚠PT1	89-VP5-606-010	POWER TRANSFORMER, H(H)
⚠PT1	89-VP5-608-010	POWER TRANSFORMER, EZ(E, Z)
⚠PT1	89-VP5-609-010	POWER TRANSFORMER, KG(K)

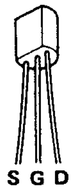
TRANSISTOR ILLUSTRATION (MX－Z95M, FX－WZ959／WZ95, TX－Z95)



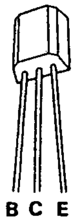
2SA933
2SA952
2SA1015
2SA1296
2SA1318
2SC945
2SC1815
2SC1740
2SC1923
2SC2001
ESA1266



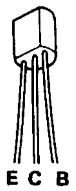
DTA114
DTA144
DTC114
2SD2144



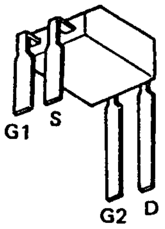
2SK246



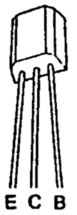
RN2202
RN2204



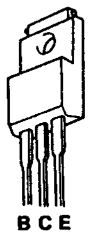
2SD655



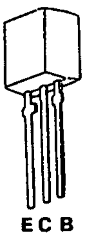
3SK73



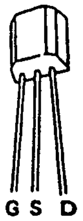
2SA1253



2SB1370



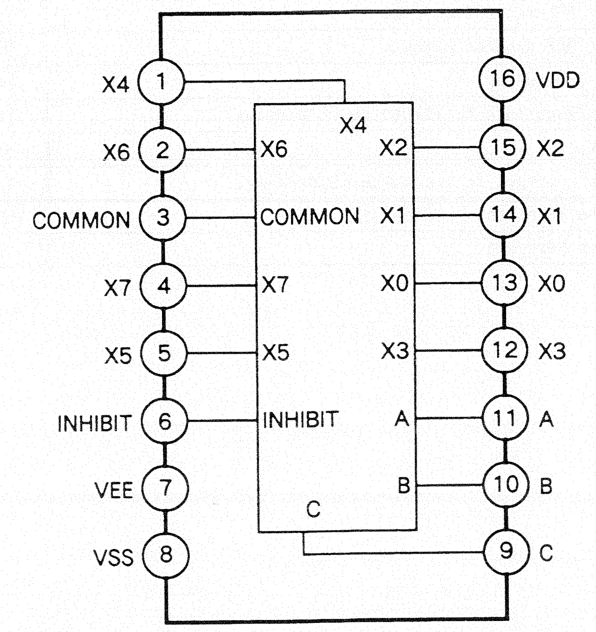
2SB1329



2SK161
2SK241

IC BLOCK DIAGRAM, TRUTH TABLE (MX－Z95M)

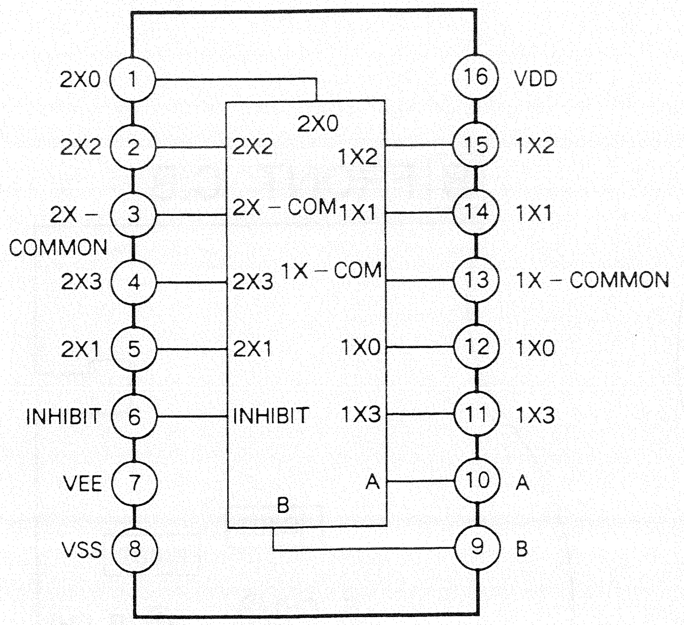
IC,HD14051BP


X4 1
X6 2
COMMON 3
X7 4
X5 5
INHIBIT 6
VEE 7
VSS 8
16 VDD
15 X2
14 X1
13 X0
12 X3
11 A
10 B
9 C
X4
X6
X2
COMMON
X1
X7
X0
X5
X3
INHIBIT
A
B
C

HD14051BP

CONTROL INPUT			ON SWITCH	FUNCTION
C	B	A		
0	0	0	×0	TAPE
0	0	1	×1	TUNER
0	1	0	×2	PHONO
0	1	1	×3	CD
1	0	0	×4	VIDEO-1/DAT
1	0	1	×5	VIDEO-2
1	1	0	×6	VIDEO-3
1	1	1	×7	(MUTE)

IC,HD14052BP


2X0 1
2X2 2
2X－COMMON 3
2X3 4
2X1 5
INHIBIT 6
VEE 7
VSS 8
16 VDD
15 1X2
14 1X1
13 1X－COMMON
12 1X0
11 1X3
10 A
9 B
2X0
2X2
1X2
2X－COM
1X1
2X3
1X－COM
2X1
1X0
INHIBIT
1X3
A
B

HD14052BP

CONTROL INPUT		ON SWITCH	FUNCTION
B	A		
0	0	×0	BBE ON
0	1	×1	BBE OFF
1	0	×2	———
1	1	×3	———

GND 0-$\overline{\text{BBE}}$

HD14052BP

CONTROL INPUT		ON SWITCH	FUNCTION
B	A		
0	0	×0	SURROUND ON
0	1	×1	NORMAL
1	0	×2	DIRECT+SURROUND
1	1	×3	DIRECT ON

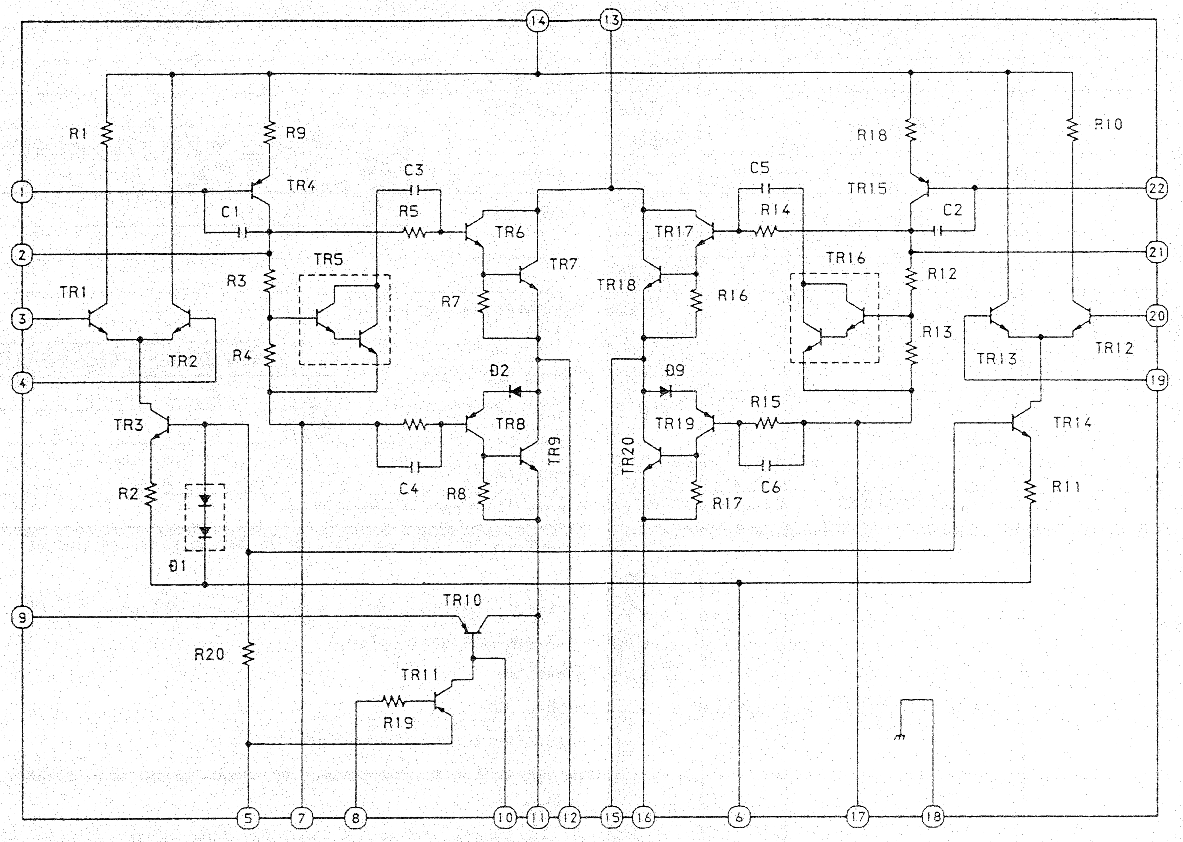
DIRECT 0-$\overline{\text{SURR}}$

HD14052BP

CONTROL INPUT		ON SWITCH	FUNCTION
B	A		
0	0	×0	DIRECT-REC
0	1	×1	(MUTE)
1	0	×2	NORMAL-REC
1	1	×3	(MUTE)

0- 0-INPUT
$\overline{\text{EQ-REQ}}$ (Usually 0)

IC,STK4221 II


R1
R9
R18
R10
TR4
C3
R5
C5
R14
TR15
C1
C2
TR6
TR17
TR7
TR18
TR5
TR16
R3
R7
R16
R12
TR1
R13
TR12
TR2
R4
TR13
D2
D9
TR3
TR8
TR19
R15
TR14
TR9
TR20
C4
C6
R2
R8
R17
R11
D1
TR10
R20
TR11
R19
1
2
3
4
9
5
7
8
10
11
12
15
16
6
17
18
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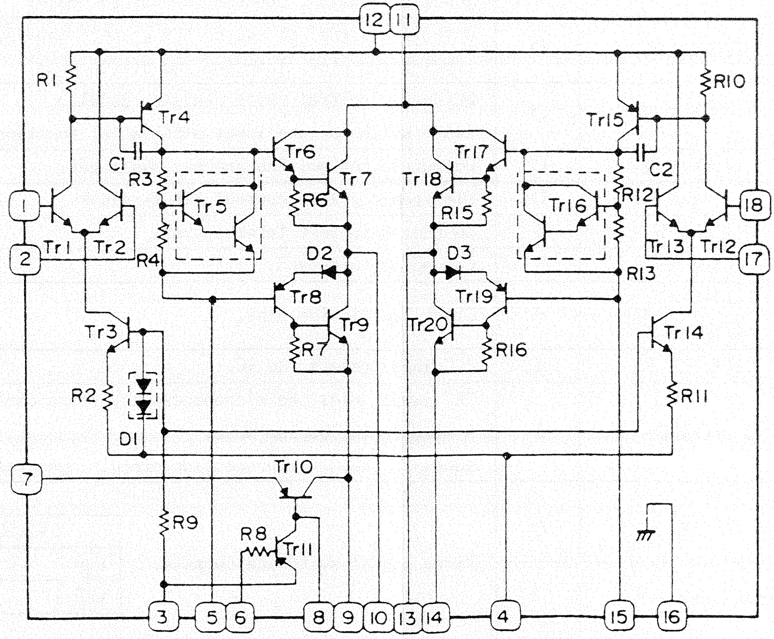
14
19
20
21
22

IC,STK4182 II


R1
R10
Tr4
Tr15
C1
C2
Tr6
Tr17
R3
R6
Tr7
Tr18
R15
R12
Tr5
Tr16
Tr1
Tr2
Tr13
Tr12
R4
R13
D2
D3
Tr8
Tr19
Tr3
Tr9
Tr20
Tr14
R7
R16
R2
R11
D1
Tr10
R9
R8
Tr11
1
2
7
17
18
3
5
6
8
9
10
13
14
4
15
16
11
12

IC DESCRIPTION (MX－Z95M)

IC,LC6568H－4267

Pin No.	Pin Name	I/O	Description	ACTIVE
1～9	a～i	O	Segments outputs to light the FL (fluorescent) display.	H
10～13	KEY－0～3	I	Key inputs.	H
14	I－REC	I	Remote control signal input.	H
15	I－RE・A	I	Volume control data input.	L
16	I－RE・B	I	Volume control data input.	L
17	KEY－4	I	Key input.	H
18	I－POWER	I	"H" when the power is turned on. The input functions are as shown in the table on the right. Note : The last function is restored by the remote control input.	H
19	KEY－POWER	I		H
20	O－$\overline{\text{POWER}}$	O	"L" output when the power is turned on.	L
21	I/O－$\overline{\text{SERIAL}}$	I/O	Control I/O serial (8-bit) terminal with the deck, tuner and CD player. 1. Auto Function (The function is set to CD or TAPE when the CD player or deck starts to play.) 2. Easy Operation ◦ CD SYNCHRO REC ・Changes the function to CD and holds it. ・Sets the system to the DIRECT REC mode during HIGH SPEED CD REC. ◦ Starts the deck or CD player when the TAPE or CD function key is turned on.	L
22	O－$\overline{\text{BBE}}$	O	BBE LED lighting and BBE ON/OFF signal switching output.	L
23	O－$\overline{\text{SURROUND}}$	O	SURROUND LED lighting, SURROUND ON/OFF signal switching and SURROUND speaker ON/OFF control output.	L
24	O－$\overline{\text{EQ REC}}$	O	DIRECT REC LED lighting and REC OUT signal switching output.	L
25	O－DATA	O	Outputs a signal to switch the graphic equalizer, electronic volume, input attenuator, function and direct mode.	H
26	O－CLK	O	Outputs a signal to switch the graphic equalizer, electronic volume, input attenuator, function and direct mode.	H
27	O－INPUT	O	Output to control shift register BU4015. (when switching the input attenuator, function and direct mode)	H
28	O－GEQ	O	Output to control the graphic equalizer.	H
29	O－EVR	O	Electronic volume control STB terminal.	H
30	TEST	I	Connected to test terminal Vss.	—
31	VSS	—	Connected to ground.	—
32	OSC－1	—	Clock oscillation pins.	—
33	OSC－2			
34	RESET	I	"L" input resets the IC.	—
35	HOLD	I	"H" input holds the microprocessor, stops oscillations and sets the system to the backup mode. (Goes "L" when the protection circuit operates)	H
36	O－VIDEO 2	O	Video signal switching outputs.	H
37	O－VIDEO 3	O		
38	I－COMP	I	Spectrum analyzer lighting level input.	H

	VR UP	VR DOWN	Not accepted
⑮	↑	↓	—
⑯	L	L	H

	LAST FUNCTION	TUNER FUNCTION
⑱	H	H
⑲	H	L

	VIDEO 1	VIDEO 2	VIDEO 3
㊱	L	H	L
㊲	L	L	H

Pin No.	Pin Name	I/O	Description	ACTIVE
39	O－COMP A	O	Spectrum analyzer BPF control output.	H
40	O－COMP B	O	Spectrum analyzer BPF control output.	H
41	O－COMP C	O	Spectrum analyzer BPF control output.	H
42	O－LED	O	Dynamic lighting LED output.	H
43～50	$\overline{\text{1G}}$～$\overline{\text{8G}}$	O	Grid and key matrix outputs to light the FL display.	L
51	－Vp	—	Connected to -31V.	—
52	$\overline{\text{9G}}$	O	Grid and key matrix output to light the FL display.	L
53～63	j～t	O	Segment outputs to light the FL display.	H
64	VDD	—	Positive ⊕ power terminal.	—

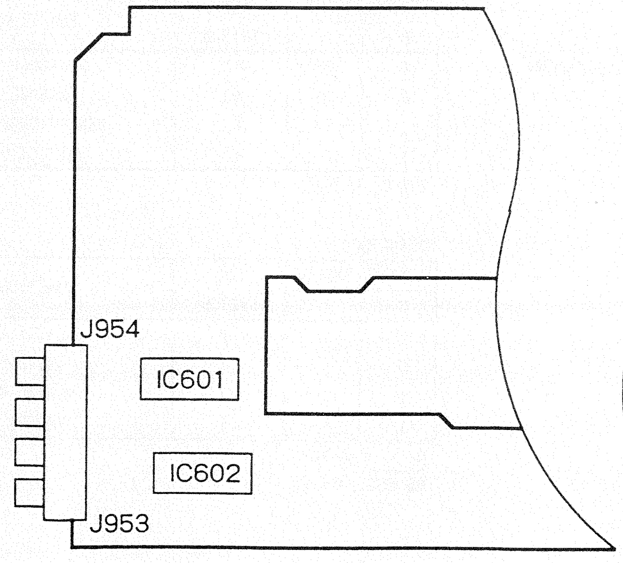
ADJUSTMENT (MX－Z95M)

1. BBE Level Adjustment.

Settings : ・Test point : VIDEO-1 / DAT REC OUT (J953)
・Input terminal : VIDEO-1 / DAT IN (J954)
・Input signal : 0dBm (0.775V), 1kHz/5kHz
・BBE switch : ON
・BBE volume : MIN
・Ajustment locations : SFR401 (Lch)
SFR402 (Rch)

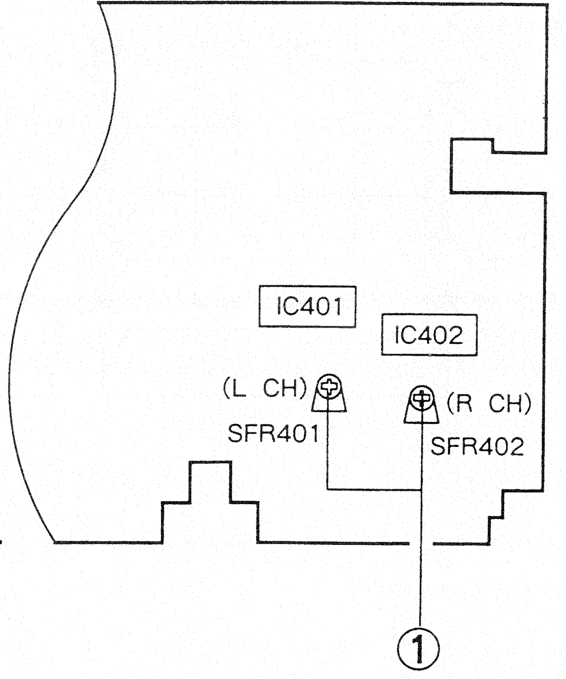
Method : Set the BBE control to minimum and adjust so that the output difference between the 1kHz and 5kHz signals is 0±0.5dBm.

A MAIN C.B

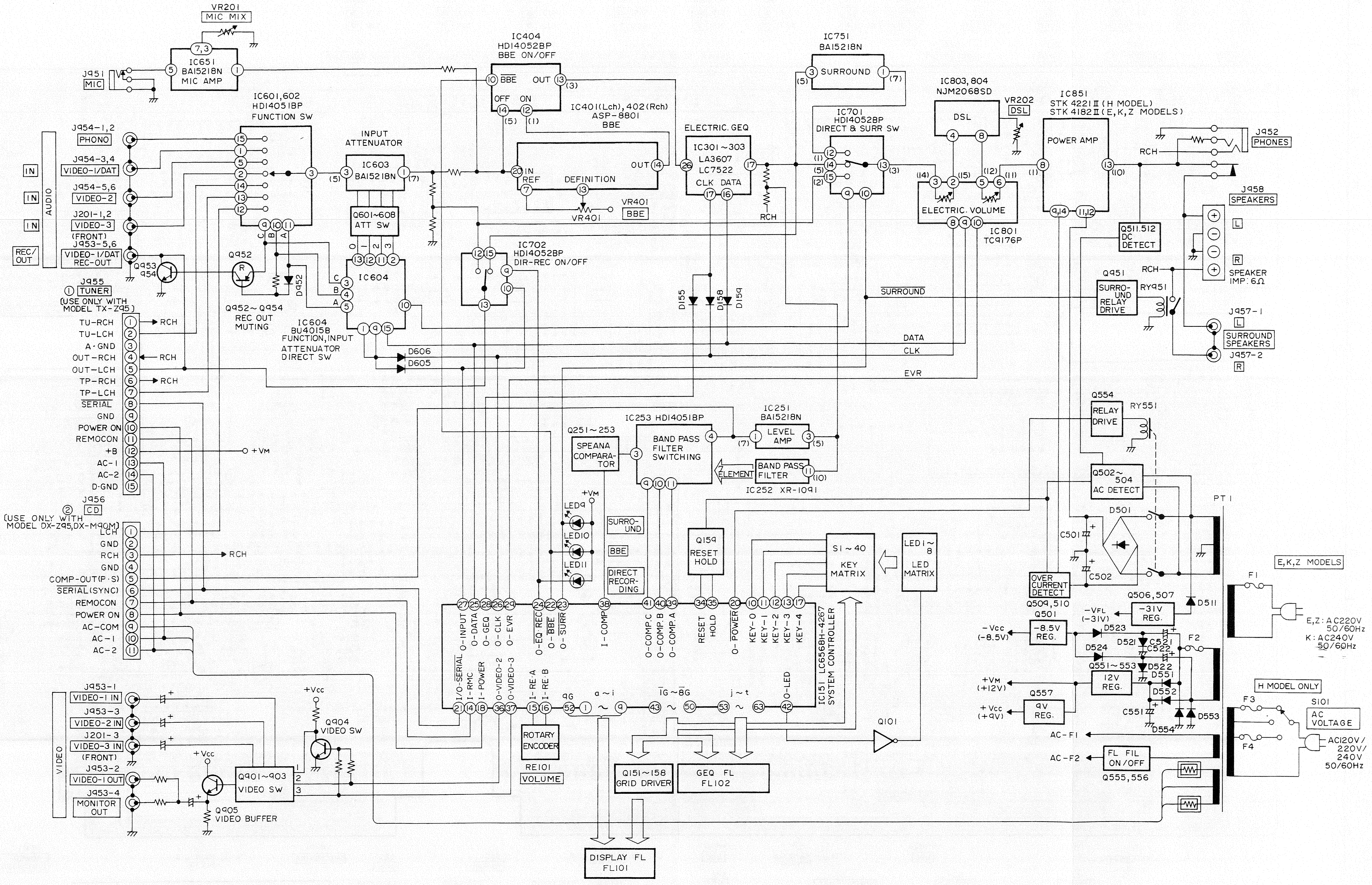


(PATTERN SIDE)

B FRONT C.B

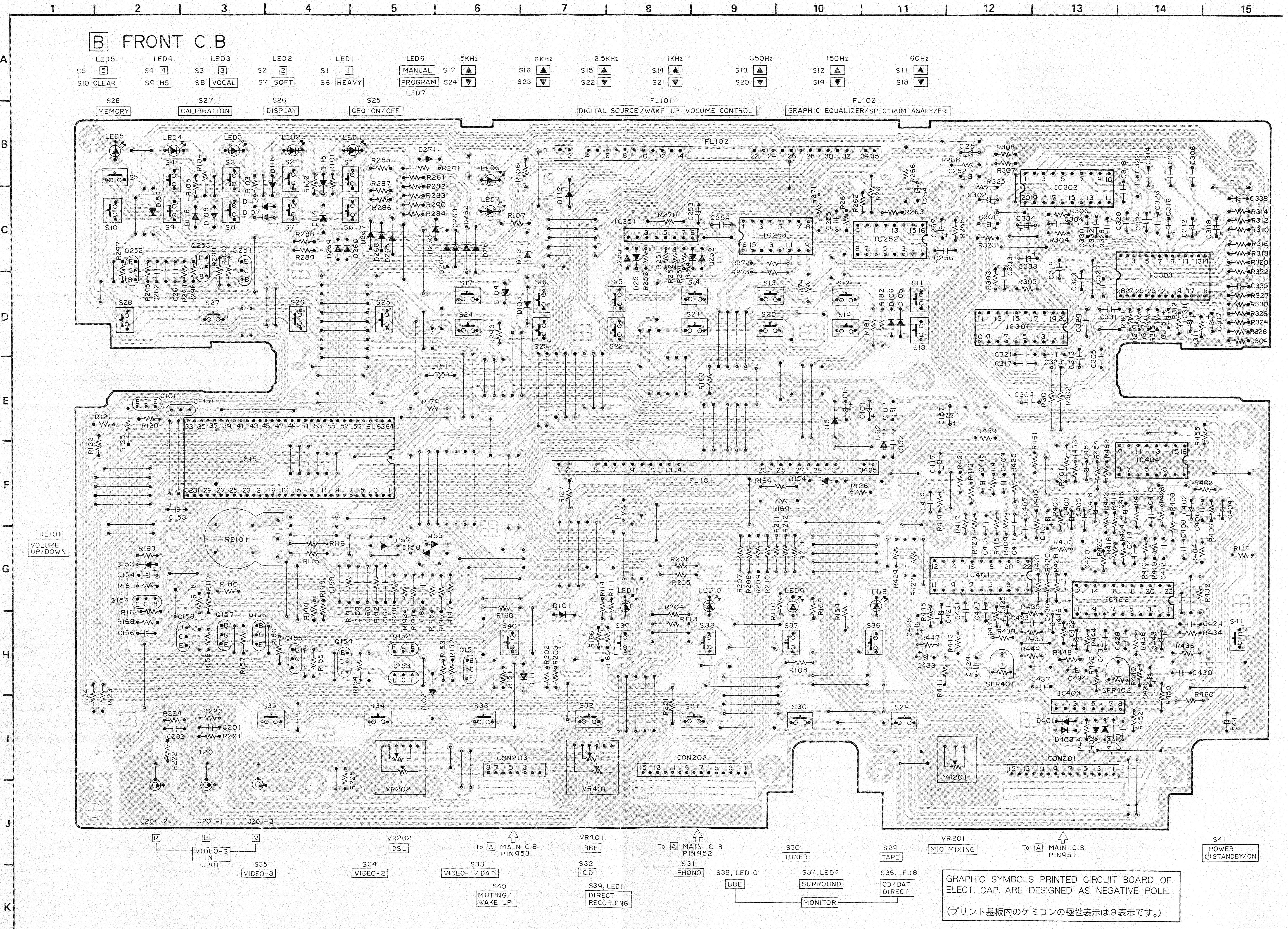


BLOCK DIAGRAM (MX－Z95M)



VR201 MIC MIX
IC651 BA15218N MIC AMP
J951 MIC
IC601,602 HD14051BP FUNCTION SW
J954-1,2 PHONO
J954-3,4 VIDEO-1/DAT
J954-5,6 VIDEO-2
J201-1,2 VIDEO-3 (FRONT)
J953-5,6 VIDEO-1/DAT REC-OUT
AUDIO
IN
REC/OUT
Q953 954
Q952
Q952～Q954 REC OUT MUTING
D952
INPUT ATTENUATOR
IC603 BA15218N
Q601～608 ATT SW
IC604
IC604 BU4015B FUNCTION, INPUT ATTENUATOR DIRECT SW
D606
D605
IC404 HD14052BP BBE ON/OFF
BBE OUT OFF ON
IC401(Lch), 402(Rch) ASP-8801 BBE
IN REF DEFINITION OUT
VR401 BBE
IC702 HD14052BP DIR-REC ON/OFF
ELECTRIC. GEQ
IC301～303 LA3607 LC7522 CLK DATA
RCH
D155 D158 D159
IC751 BA15218N SURROUND
IC701 HD14052BP DIRECT & SURR SW
IC803, 804 NJM2068SD DSL
VR202 DSL
ELECTRIC. VOLUME
IC801 TC9176P
IC851 STK 4221Ⅱ (H MODEL) STK 4182Ⅱ (E,K,Z MODELS)
POWER AMP
J952 PHONES
J958 SPEAKERS
L R
SPEAKER IMP: 6Ω
Q511.512 DC DETECT
Q951 SURRO-UND RELAY DRIVE
RY951
SURROUND
DATA
CLK
EVR
J957-1 L
SURROUND SPEAKERS
J957-2 R
J955 ① TUNER
(USE ONLY WITH MODEL TX-Z95)
TU-RCH TU-LCH A-GND OUT-RCH OUT-LCH TP-RCH TP-LCH SERIAL GND POWER ON REMOCON +B AC-1 AC-2 D-GND
+VM
J956 ② CD
(USE ONLY WITH MODEL DX-Z95, DX-M90M)
LCH GND RCH GND COMP-OUT(P·S) SERIAL(SYNC) REMOCON POWER ON AC-COM AC-1 AC-2
Q251～253 SPEANA COMPARATOR
IC253 HD14051BP BAND PASS FILTER SWITCHING
IC251 BA15218N LEVEL AMP
BAND PASS FILTER
ELEMENT
IC252 XR-1091
LED9 LED10 LED11
SURRO-UND
BBE
DIRECT RECOR-DING
Q159 RESET HOLD
S1～40 KEY MATRIX
LED1～8 LED MATRIX
O-INPUT O-DATA O-GEQ O-CLK O-EVR O-EQ REC O-BBE O-SURR I-COMP O-COMP.C O-COMP.B O-COMP.A RESET HOLD O-POWER KEY-0 KEY-1 KEY-2 KEY-3 KEY-4
IC151 LC6568H-4267 SYSTEM CONTROLLER
I/O-SERIAL I-RMC I-POWER O-VIDEO-2 O-VIDEO-3 I-RE A I-RE B 1G～8G a～i j～t O-LED
ROTARY ENCODER
RE101 VOLUME
Q151～158 GRID DRIVER
GEQ FL FL102
DISPLAY FL FL101
Q101
Q554 RELAY DRIVE
RY551
Q502～504 AC DETECT
D501
C501 C502
OVER CURRENT DETECT
Q509,510
PT1
E,K,Z MODELS
F1
E,Z: AC220V 50/60Hz
K: AC240V 50/60Hz
Q506,507 -31V REG.
D511
-VFL (-31V)
Q501 -8.5V REG.
-Vcc (-8.5V)
D523 D521 C521 D524 C522
Q551～553 12V REG.
D522 D551 D552
+VM (+12V)
Q557 9V REG.
+Vcc (+9V)
C551 D554 D553
F2
AC-F1
AC-F2
FL FIL ON/OFF
Q555,556
H MODEL ONLY
F3 F4
S101 AC VOLTAGE
AC120V/220V/240V 50/60Hz
VIDEO
J953-1 VIDEO-1 IN
J953-3 VIDEO-2 IN
J201-3 VIDEO-3 IN (FRONT)
J953-2 VIDEO-1 OUT
J953-4 MONITOR OUT
+Vcc
Q904 VIDEO SW
Q901～903 VIDEO SW
Q905 VIDEO BUFFER

WIRING — 1 (MX — Z95M)


1
2
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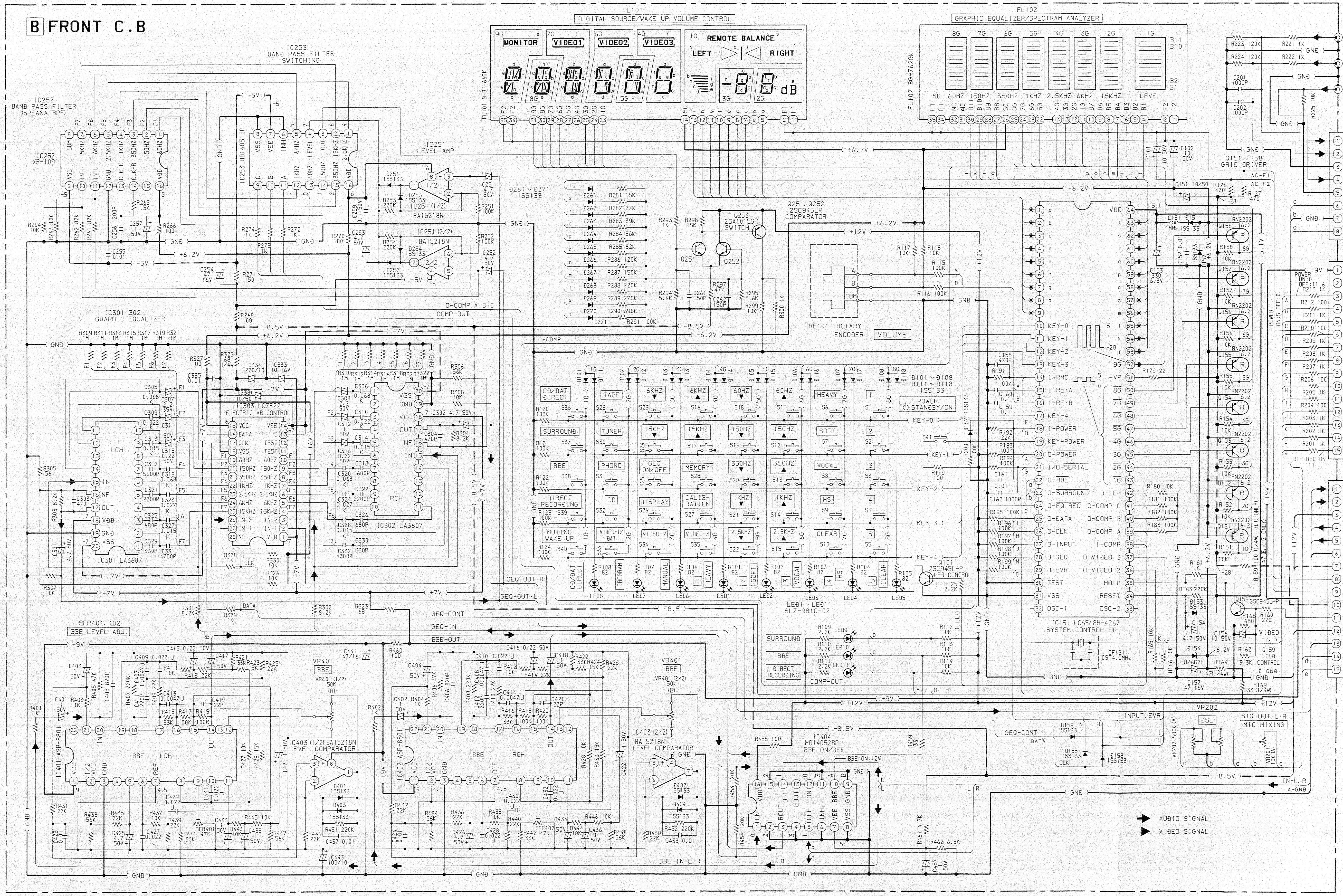
6
7
8
9
10
11
12
13
14
15
A
B
C
D
E
F
G
H
I
J
K
B FRONT C.B
LED5 S5 5 S10 CLEAR
LED4 S4 4 S9 HS
LED3 S3 3 S8 VOCAL
LED2 S2 2 S7 SOFT
LED1 S1 1 S6 HEAVY
LED6 MANUAL PROGRAM LED7
15KHz S17 ▲ S24 ▼
6KHz S16 ▲ S23 ▼
2.5KHz S15 ▲ S22 ▼
1KHz S14 ▲ S21 ▼
350Hz S13 ▲ S20 ▼
150Hz S12 ▲ S19 ▼
60Hz S11 ▲ S18 ▼
S28 MEMORY
S27 CALIBRATION
S26 DISPLAY
S25 GEQ ON/OFF
FL101 DIGITAL SOURCE/WAKE UP VOLUME CONTROL
FL102 GRAPHIC EQUALIZER/SPECTRUM ANALYZER
FL102
IC251
IC253
IC252
IC302
IC303
IC301
IC151
FL101
IC404
IC401
IC402
IC403
RE101
RE101 VOLUME UP/DOWN
SFR401
SFR402
VR202
VR401
VR201
CON203
CON202
CON201
J201-2
J201-1
J201-3
R L V
VIDEO-3 IN J201
S35 VIDEO-3
VR202 DSL
S34 VIDEO-2
To A MAIN C.B PIN953
S33 VIDEO-1 / DAT
S40 MUTING/ WAKE UP
VR401 BBE
S32 CD
S39, LED11 DIRECT RECORDING
To A MAIN C.B PIN952
S31 PHONO
S38, LED10 BBE
S30 TUNER
S37, LED9 SURROUND
S29 TAPE
S36, LED8 CD/DAT DIRECT
MONITOR
VR201 MIC MIXING
To A MAIN C.B PIN951
S41 POWER ⏻STANDBY/ON

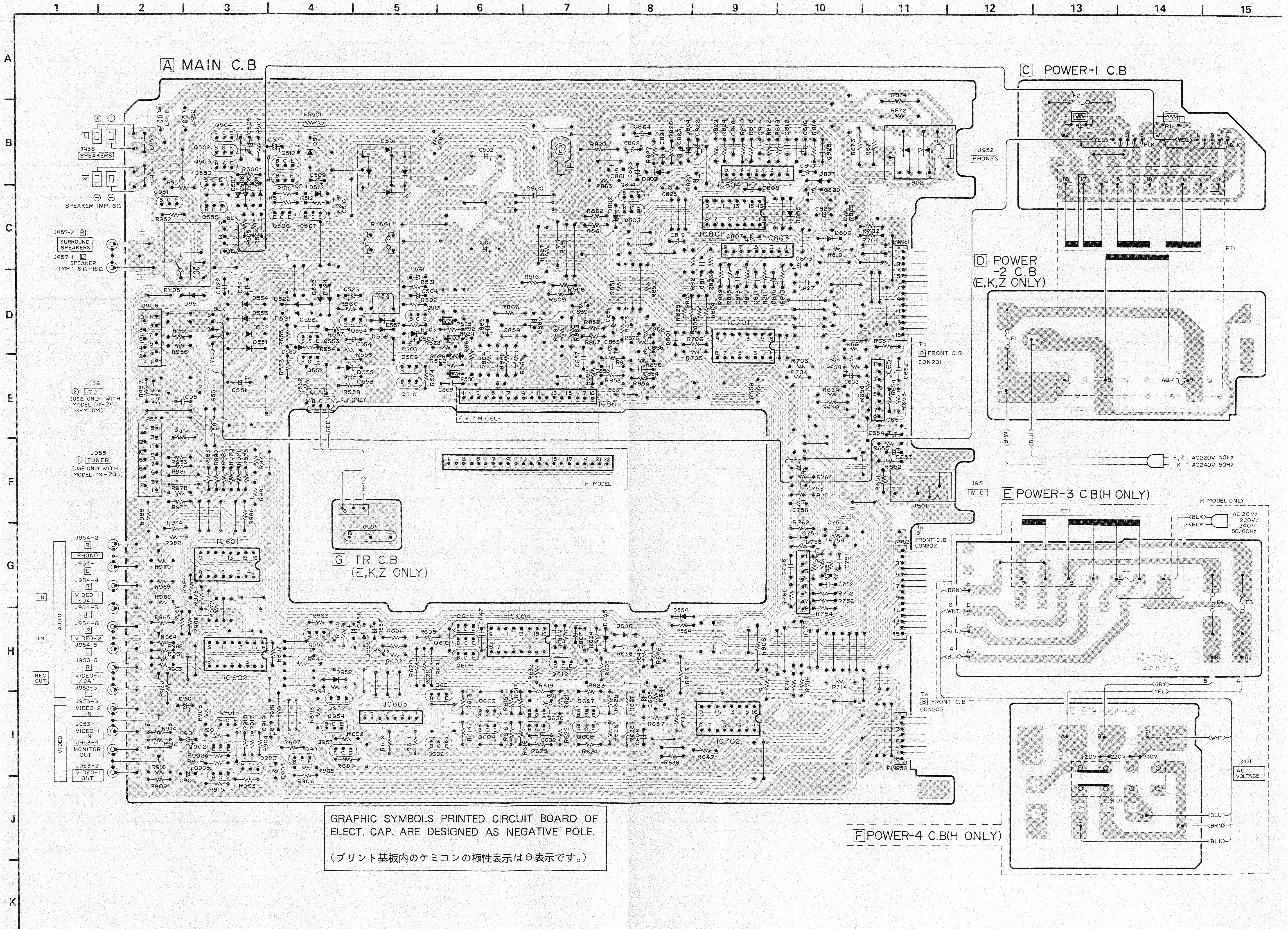
GRAPHIC SYMBOLS PRINTED CIRCUIT BOARD OF ELECT. CAP. ARE DESIGNED AS NEGATIVE POLE.

（プリント基板内のケミコンの極性表示は⊖表示です。）

SCHEMATIC DIAGRAM — 1 (MX — Z95M)


B FRONT C.B
FL101
DIGITAL SOURCE/WAKE UP VOLUME CONTROL
MONITOR
VIDEO1
VIDEO2
VIDEO3
REMOTE BALANCE
LEFT
RIGHT
dB
FL102
GRAPHIC EQUALIZER/SPECTRAM ANALYZER
SC 60HZ 150HZ 350HZ 1KHZ 2.5KHZ 6KHZ 15KHZ LEVEL
IC253
BAND PASS FILTER SWITCHING
IC252
BAND PASS FILTER (SPEANA BPF)
IC252 XR-1091
IC253 HD14051BP
IC251 LEVEL AMP
IC251 (1/2) BA15218N
IC251 (2/2) BA15218N
D261 ~ D271 1SS133
Q251, Q252 2SC945LP COMPARATOR
Q253 2SA1015GR SWITCH
RE101 ROTARY ENCODER
VOLUME
IC301, 302 GRAPHIC EQUALIZER
IC301 LA3607
IC302 LA3607
IC303 LC7522 ELECTRIC VR CONTROL
LCH
RCH
CD/DAT DIRECT
TAPE
6KHZ
60HZ
HEAVY
SURROUND
TUNER
15KHZ
150HZ
SOFT
BBE
PHONO
GEQ ON/OFF
MEMORY
350HZ
VOCAL
DIRECT RECORDING
CD
DISPLAY
CALIB-RATION
1KHZ
HS
MUTING WAKE UP
VIDEO-1/DAT
VIDEO-2
VIDEO-3
2.5KHZ
CLEAR
POWER STANDBY/ON
D101 ~ D108
D111 ~ D118
1SS133
LED1 ~ LED11 SLZ-981C-02
Q101 2SC945L-P LED CONTROL
IC151 LC6568H-4267 SYSTEM CONTROLLER
CF151 CSA4.00MHz
Q151 ~ 158 GRID DRIVER
VIDEO-3
J201-1
J201-2
J201-3
CON203
VIDEO-3 LCH
VIDEO-3 RCH
VIDEO-3 A-GND
VIDEO-3 V
VIDEO-3 D-GND
DSL LCH
DSL COM
DSL RCH
TO A MAIN C.B PIN953
CON202
VCC (+9V)
O-POWER
O-SURROUND
O-EVR
I-POWER
COMP-OUT
I-RMC
I/O-SERIAL
O-CLK
O-DATA
O-INPUT
O-VIDEO-2
O-VIDEO-3
O-EQ-REC
TO A MAIN C.B PIN952
CON201
OUT LCH
OUT RCH
+VM
IN LCH
IN RCH
A-GND
-VCC (-8.5V)
AC-F2
AC-F1
-VFL (-31V)
RESET
D-GND
A-GND
MIC-OUT
MIC-IN
TO A MAIN C.B PIN951
SFR401, 402 BBE LEVEL ADJ.
IC401 ASP-8801
IC402 ASP-8801
BBE
VR401 BBE
IC403 (1/2) BA15218N LEVEL COMPARATOR
IC403 (2/2) BA15218N LEVEL COMPARATOR
IC404 HD14052BP BBE ON/OFF
BBE ON:12V
GEQ-OUT·R
GEQ-OUT·L
GEQ-CONT
GEQ-IN
BBE-OUT
BBE-IN L·R
COMP-OUT
INPUT.EVR
VR202
DSL
SIG OUT L·R
MIC MIXING
Q159 2SC945L-P
Q159 HOLD CONTROL
AUDIO SIGNAL
VIDEO SIGNAL

WIRING－2 (MX－Z95M)


A MAIN C.B
C POWER-1 C.B
D POWER -2 C.B (E,K,Z ONLY)
E POWER-3 C.B(H ONLY)
F POWER-4 C.B(H ONLY)
G TR C.B (E,K,Z ONLY)
J958 SPEAKERS
SPEAKER IMP: 6Ω
J957-2 R SURROUND SPEAKERS
J957-1 L SPEAKER IMP: 16Ω+16Ω
J956 ② CD (USE ONLY WITH MODEL DX-Z45, DX-M90M)
J955 ① TUNER (USE ONLY WITH MODEL TX-Z45)
J954-2 R PHONO
J954-1 L
J954-4 R VIDEO-1 / DAT
J954-3 L
J954-6 R VIDEO-2
J954-5 L
J953-6 R VIDEO-1 / DAT
J953-5 L
J953-3 VIDEO-2 IN
J953-1 VIDEO-1 IN
J953-4 MONITOR OUT
J953-2 VIDEO-1 OUT
IN
AUDIO
IN
REC OUT
VIDEO
J952 PHONES
J951 MIC
To B FRONT C.B CON201
To B FRONT C.B CON202
To B FRONT C.B CON203
E,K,Z MODELS
H MODEL
H ONLY
E,Z : AC220V 50Hz
K : AC240V 50Hz
H MODEL ONLY
AC120V/ 220V/ 240V 50/60Hz
S101 AC VOLTAGE
120V 220V 240V
PT1
IC601
IC602
IC603
IC604
IC701
IC702
IC801
IC803
IC804
IC851
RY551
RY951
FR501

GRAPHIC SYMBOLS PRINTED CIRCUIT BOARD OF ELECT. CAP. ARE DESIGNED AS NEGATIVE POLE.

（プリント基板内のケミコンの極性表示は⊖表示です。）

MODEL NO.

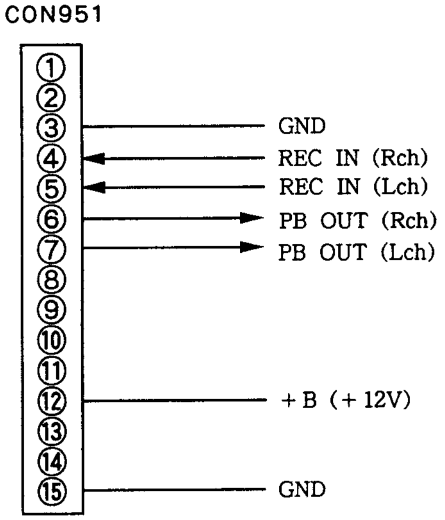
FX – WZ959／WZ95

CAUTIONS WHEN SERVICING (FX – WZ959／WZ95)

Model FX – WZ95／WZ959 does not have a power supply circuit. Power is supplied to it through a 15 – pin flat cable and the signal inputs／outputs are also performed through this cable.
When servicing the FX – WZ95／WZ959 connect it to the MX – Z95M so power is supplied to the FX – WZ95／WZ959.
If the MX – Z95M is not available, follow the procedure below.

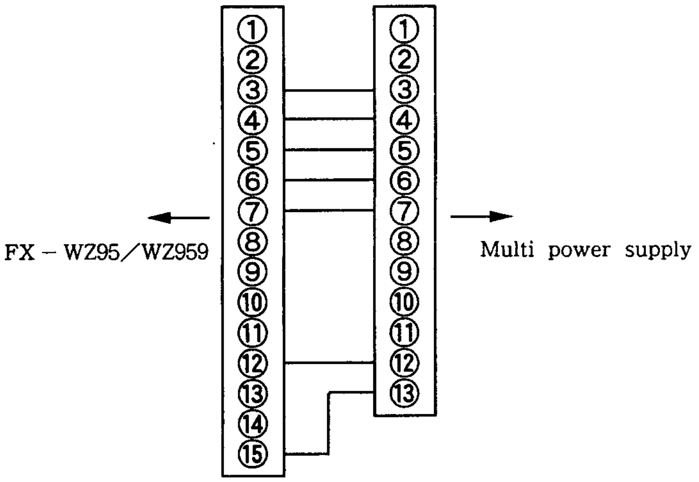
[When servicing the unassembled FX – WZ95／WZ959]

① Supply the following voltages to each terminal from an external power supply.

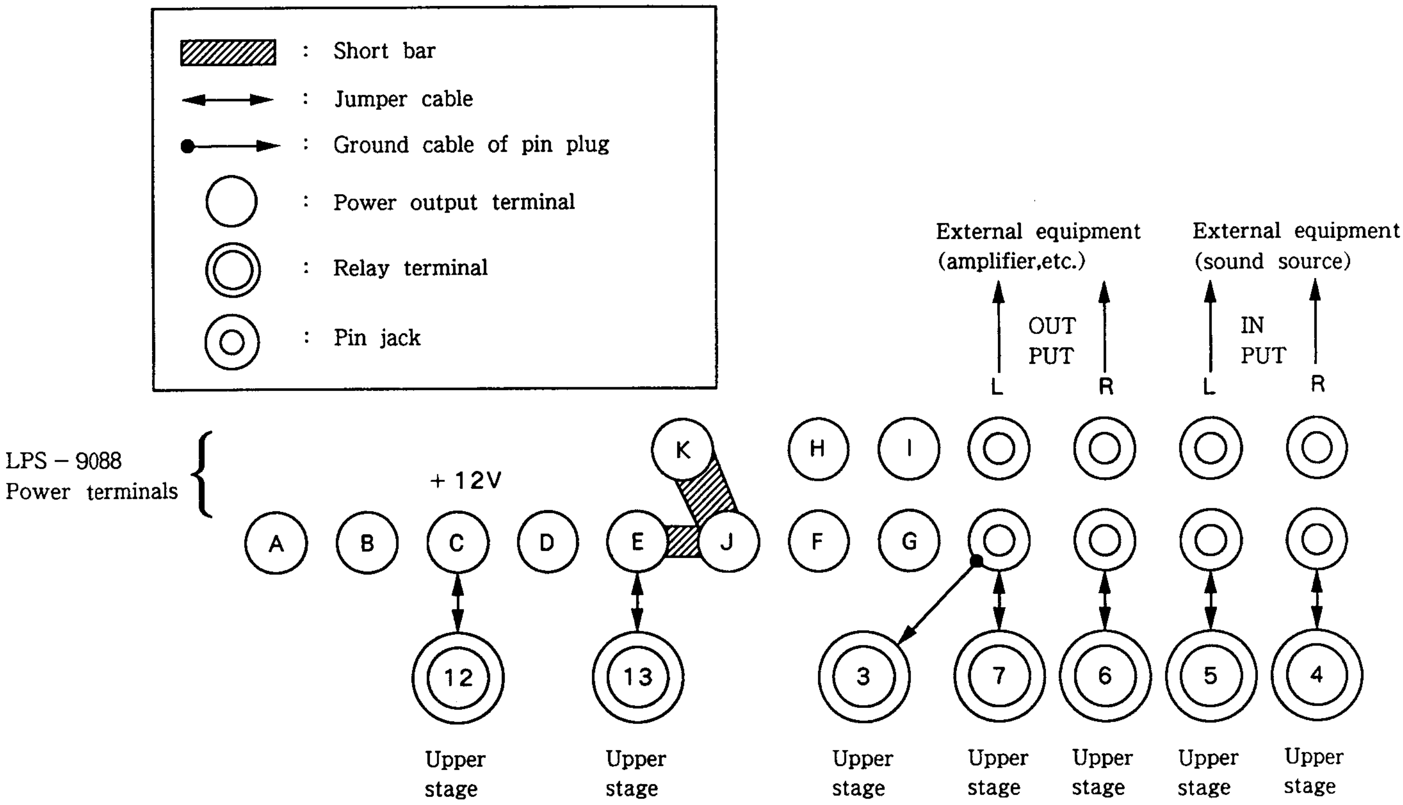

CON951
①
②
③
④
⑤
⑥
⑦
⑧
⑨
⑩
⑪
⑫
⑬
⑭
⑮
GND
REC IN (Rch)
REC IN (Lch)
PB OUT (Rch)
PB OUT (Lch)
+B (+12V)
GND

② Connection diagram when using multi power supply (LPS – 9088)

- Connect a multi – conversion harness for the type F550 to J1.


FX – WZ95／WZ959
Multi power supply
①
②
③
④
⑤
⑥
⑦
⑧
⑨
⑩
⑪
⑫
⑬
⑭
⑮

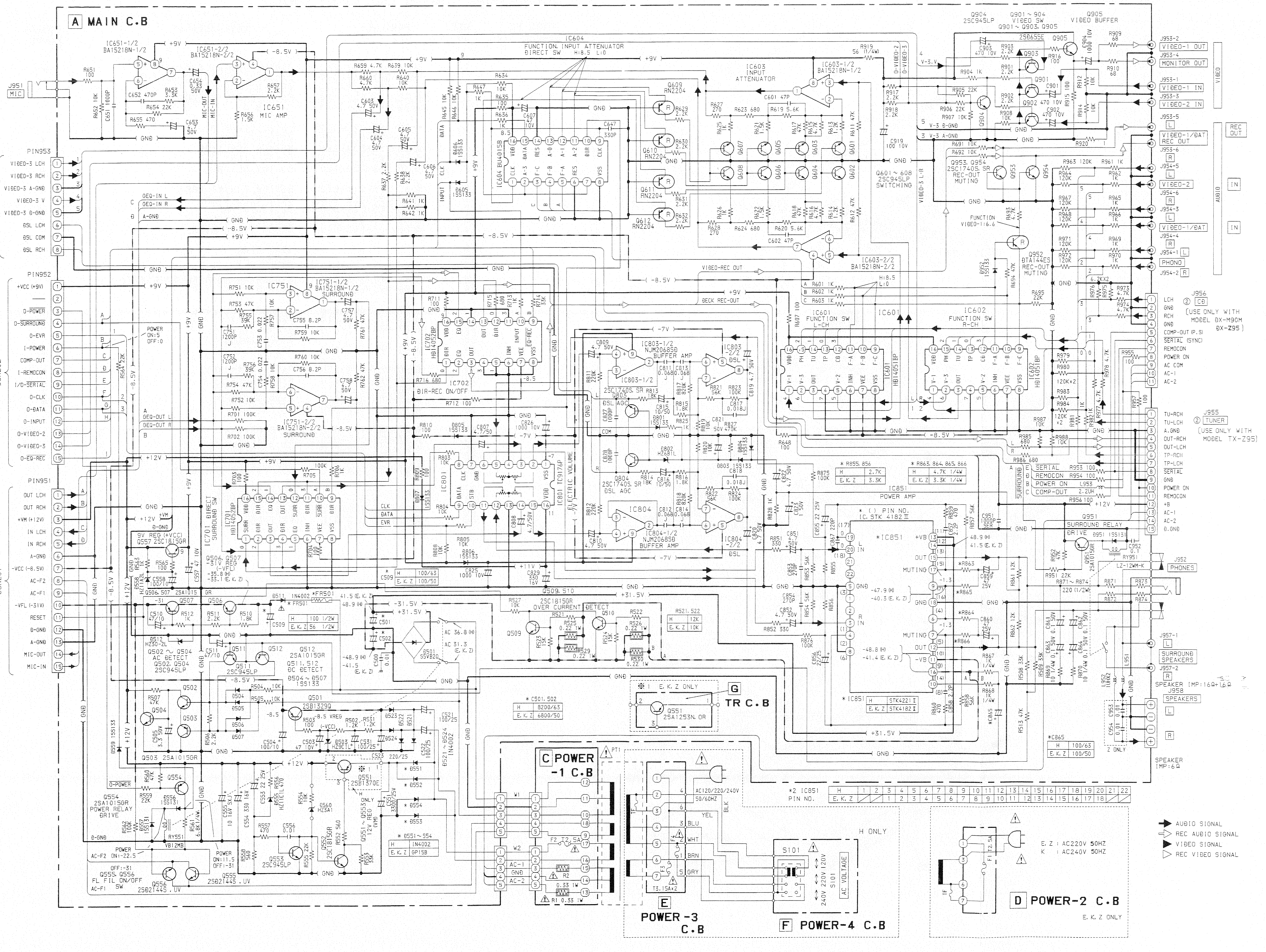
Connect a multi – conversion harness


▨ : Short bar
◄—► : Jumper cable
●—► : Ground cable of pin plug
○ : Power output terminal
◎ : Relay terminal
⊙ : Pin jack
External equipment (amplifier,etc.)
External equipment (sound source)
OUT PUT
IN PUT
L
R
L
R
LPS – 9088 Power terminals
+12V
A
B
C
D
E
F
G
H
I
J
K
12
13
3
7
6
5
4
Upper stage
Upper stage
Upper stage
Upper stage
Upper stage
Upper stage
Upper stage

ELECTRICAL MAIN PARTS LIST (FX—WZ959/WZ95)

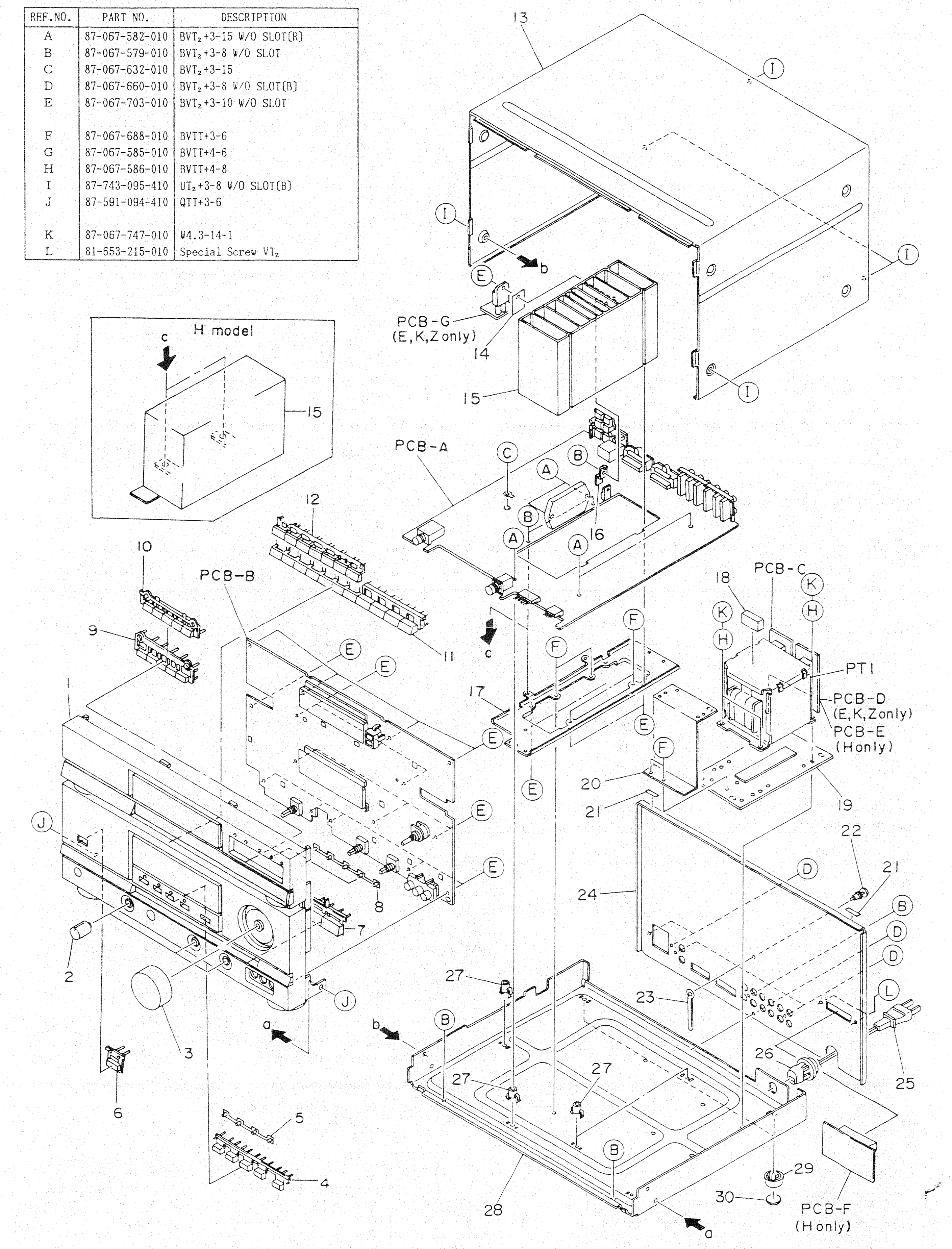
REF. NO.	PART NO.	DESCRIPTION
::: IC :::		
	87-001-440-010	IC, BA15218N
	87-001-908-010	IC, CXA1332S
	87-001-873-010	IC, LB1644
	S6-804-060-020	IC, LB9050A
	89-VW6-601-010	IC, LC6568H-4316
	87-020-533-010	IC, M4069UBP
	87-020-758-010	IC, NJM2068SD
	87-020-908-010	IC, NJU4066BD
::: TRANSISTOR :::		
	89-502-465-019	FET, 2SK246GR
	87-026-463-010	TRANSISTOR, 2SA933S SR
	89-109-521-010	TRANSISTOR, 2SA952K
	89-110-155-010	TRANSISTOR, 2SA1015GR
	87-026-462-010	TRANSISTOR, 2SC1740S SR
	89-112-965-010	TRANSISTOR, 2SA1296GR
	89-113-184-010	TRANSISTOR, 2SA1318T
	89-318-155-010	TRANSISTOR, 2SC1815GR
	89-406-555-010	TRANSISTOR, 2SD655E
	S6-804-050-040	TRANSISTOR, ESA1266
::: DIODE :::		
	87-001-559-010	DIODE 1SS131
	87-020-465-010	DIODE 1SS133
	87-020-123-010	DIODE DS446
	87-027-475-010	DIODE, ZENER HZ6B1
	87-027-332-010	DIODE, ZENER HZ6B1L
::: MAIN CIRCUIT BOARD SECTION :::		
C101	★87-018-123-010	CAP, CERA-SOL 220P-50
C102	★87-018-123-010	CAP, CERA-SOL 220P-50
C103	★87-018-115-010	CAP, CERA-SOL 47P-50 SL
C104	★87-018-115-010	CAP, CERA-SOL 47P-50 SL
C111	★87-010-404-010	CAP, ELECT 4.7-50 SME
C112	★87-010-404-010	CAP, ELECT 4.7-50 SME
C113	★87-010-101-010	CAP, ELECT 220-16 SME
C115	★87-018-131-010	CAP, CERA-SOL 1000P-50(WZ959)
C201	★87-018-120-010	CAP, CERA-SOL 330P-50
C202	★87-018-120-010	CAP, CERA-SOL 330P-50
C203	★87-018-115-010	CAP, CERA-SOL 47P-50 SL
C204	★87-018-115-010	CAP, CERA-SOL 47P-50 SL
C209	★87-018-123-010	CAP, CERA-SOL 220P-50
C210	★87-018-123-010	CAP, CERA-SOL 220P-50
C211	★87-010-404-010	CAP, ELECT 4.7-50 SME
C212	★87-010-404-010	CAP, ELECT 4.7-50 SME
C213	★87-010-404-010	CAP, ELECT 4.7-50 SME
C214	★87-010-404-010	CAP, ELECT 4.7-50 SME
C215	★87-010-101-010	CAP, ELECT 220-16 SME
C217	★87-010-401-010	CAP, ELECT 1-50 SME
C218	★87-010-401-010	CAP, ELECT 1-50 SME
C219	★87-018-131-010	CAP, SERA-SOL 1000P-50(WZ959)
C251	★87-018-133-010	CAP, CERA-SOL 4700P-16
C252	★87-018-100-010	CAP, CERA-SOL 4.7P-50 SL
C253	★87-018-132-010	CAP, CERA-SOL 2200P-16
C255	★87-018-121-010	CAP, CERA-SOL 150P-50
C256	★87-010-374-010	CAP, ELECT 47-10
C257	★87-010-401-010	CAP, ELECT 1-50 SME
C258	★87-018-100-010	CAP, CERA-SOL 4.7P-50 SL
C259	★87-018-131-010	CAP, CERA-SOL 1000P-50
C301	★87-018-119-010	CAP, CEAR-SOL 100P-50
C302	★87-018-119-010	CAP, CEAR-SOL 100P-50
C303	★87-010-404-010	CAP, ELECT 4.7-50 SME
C304	★87-010-404-010	CAP, ELECT 4.7-50 SME
C305	★87-018-132-010	CAP, CERA-SOL 2200P-16
C306	★87-018-132-010	CAP, CERA-SOL 2200P-16
C315	★87-018-131-010	CAP, CERA-SOL 1000P-50
C316	★87-018-131-010	CAP, CERA-SOL 1000P-50
C401	★87-018-123-010	CAP, CERA-SOL 220P-50
C402	★87-018-123-010	CAP, CERA-SOL 220P-50
C403	★87-014-063-010	CAP, PP 1800P
C408	★87-010-405-010	CAP, ELECT 10-50 SME
C409	★87-010-401-010	CAP, ELECT 1-50 SME
C410	★87-010-381-010	CAP, ELECT 330-16 SME
C451	★87-018-131-010	CAP, CERA-SOL 1000P-50
C453	★87-018-119-010	CAP, CEAR-SOL 100P-50
C454	★87-018-119-010	CAP, CEAR-SOL 100P-50
C501	★87-018-127-010	CAP, CERA-SOL 470P-50
C502	★87-018-127-010	CAP, CERA-SOL 470P-50
C503	★87-018-127-010	CAP, CERA-SOL 470P-50
C504	★87-018-127-010	CAP, CERA-SOL 470P-50
C505	★87-010-404-010	CAP, ELECT 4.7-50 SME
C506	★87-010-404-010	CAP, ELECT 4.7-50 SME
C511	★87-010-545-010	CAP, ELECT 0.22-50 SME
C512	★87-010-545-010	CAP, ELECT 0.22-50 SME
C515	★87-010-404-010	CAP, ELECT 4.7-50 SME
C516	★87-010-404-010	CAP, ELECT 4.7-50 SME
C517	★87-010-252-010	CAP, ELECT 1000-6.3
C518	★87-010-101-010	CAP, ELECT 220-16 SME
C519	★87-010-404-010	CAP, ELECT 4.7-50 SME
C520	★87-010-404-010	CAP, ELECT 4.7-50 SME
C601	★87-010-404-010	CAP, ELECT 4.7-50 SME
C602	★87-010-381-010	CAP, ELECT 330-16 SME
C607	★87-010-101-010	CAP, ELECT 220-16 SME
C608	★87-010-237-010	CAP, ELECT 1000-16
C751	★87-018-134-010	CAP, CERA-SOL 0.01-16
C752	★87-018-134-010	CAP, CERA-SOL 0.01-16
C753	★87-010-382-010	CAP, ELECT 22-25 SME
C801	★87-010-221-010	CAP, ELECT 470-10
C802	★87-010-404-010	CAP, ELECT 4.7-50 SME
CF801	★87-030-167-010	VIB, CER CST4.0MHZ
⚠FR711	87-029-019-010	RES, FUSE 2.2-1/2W
L301	★82-231-629-010	COIL 22MMH
L302	★82-231-629-010	COIL 22MMH
L303	★87-003-131-010	COIL 10MMH
L304	★87-003-131-010	COIL 10MMH
L305	★87-003-123-010	COIL 2.2MMH
L306	★87-003-123-010	COIL 2.2MMH
L401	★81-693-608-010	COIL OSC BIAS 108K
L601	★87-003-060-010	COIL 12UH
SFR101	★87-024-168-010	SFR 1K
SFR102	★87-024-168-010	SFR 1K
SFR201	★87-024-168-010	SFR 1K
SFR202	★87-024-168-010	SFR 1K
SFR301	★87-024-172-010	SFR 10K
SFR302	★87-024-172-010	SFR 10K
SFR401	★87-024-176-010	SFR 100K
SFR402	★87-024-176-010	SFR 100K
::: FRONT CIRCUIT BOARD SECTION :::		
C951	★87-018-127-010	CAP, CERA-SOL 470P-50
C952	★87-018-127-010	CAP, CERA-SOL 470P-50
C953	★87-018-127-010	CAP, CERA-SOL 470P-50
D921	89-VW5-607-010	LED SLH-38VC(SYNC. DUBB. NORM.)
D922	89-VW5-607-010	LED SLH-38VC(SYNC. DUBB. HIGH)
D923	89-VW5-607-010	LED SLH-38VC(CD SYNC. REC NORM.)
D924	89-VW5-607-010	LED SLH-38VC(CROSS FADE)

SCHEMATIC DIAGRAM—2 (MX—Z95M)


A MAIN C.B
IC651-1/2 BA15218N-1/2
IC651-2/2 BA15218N-2/2
IC651 MIC AMP
J951 MIC
IC604 FUNCTION, INPUT ATTENUATOR DIRECT SW H:8.5 L:0
IC604 BU4015B
IC603 INPUT ATTENUATOR
IC603-1/2 BA15218N-1/2
IC603-2/2 BA15218N-2/2
Q601~608 2SC945LP SWITCHING
Q609~Q612 RN2204
Q904 2SC945LP
Q901~904 VIDEO SW
Q905 VIDEO BUFFER
Q901~Q903, Q905 2SA1015GR
Q953, Q954 2SC1740S, SR REC-OUT MUTING
Q952 DTA144ES REC-OUT MUTING
FUNCTION VIDEO-1:6.6
J953-2 VIDEO-1 OUT
J953-4 MONITOR OUT
J953-1 VIDEO-1 IN
J953-3 VIDEO-2 IN
VIDEO
J953-5 VIDEO-1/DAT REC OUT
REC OUT
J954-5 VIDEO-2
J954-3 VIDEO-1/DAT
J954-1 PHONO
AUDIO
IN
PIN953
TO B FRONT C.B CON203
VIDEO-3 LCH
VIDEO-3 RCH
VIDEO-3 A-GND
VIDEO-3 V
VIDEO-3 D-GND
DSL LCH
DSL COM
DSL RCH
PIN952
TO B FRONT C.B CON202
+VCC (+9V)
D-POWER
D-SURROUND
D-EVR
I-POWER
COMP-OUT
I-REMOCON
I/O-SERIAL
D-CLK
D-DATA
D-INPUT
D-VIDEO-2
D-VIDEO-3
D-EQ-REC
POWER ON:5 OFF:0
PIN951
TO B FRONT C.B CON201
OUT LCH
OUT RCH
+VM (+12V)
IN LCH
IN RCH
A-GND
-VCC (-8.5V)
AC-F2
AC-F1
-VFL (-31V)
RESET
D-GND
A-GND
MIC-OUT
MIC-IN
GEQ-IN L
GEQ-IN R
GEQ-OUT L
GEQ-OUT R
IC751-1/2 BA15218N-1/2 SURROUND
IC751-2/2 BA15218N-2/2 SURROUND
IC702 HD14052BP
IC702 DIR-REC ON/OFF
IC701 HD14052BP
IC701 DIRECT SURROUND SW
IC801 TC9174P ELECTRIC VOLUME
IC803-1/2 NJM2068SD BUFFER AMP
IC803-2/2 DSL
IC804-1/2 NJM2068SD BUFFER AMP
IC804-2/2 DSL
Q803, Q804 2SC1740S, SR DSL AGC
Q802 HZ6B1L
IC601 FUNCTION SW L-CH
IC601 HD14051BP
IC602 FUNCTION SW R-CH
IC602 HD14051BP
VIDEO-REC OUT
DECK REC-OUT
IC851 POWER AMP
* ( ) PIN NO. IC STK 4182 II
*IC851
MUTING
Q951 SURROUND RELAY DRIVE
RY951
J956 CD [USE ONLY WITH MODEL DX-M90M DX-Z95]
LCH
GND
RCH
COMP-OUT (P.S)
SERIAL (SYNC)
REMOCON
POWER ON
AC COM
AC-1
AC-2
J955 TUNER [USE ONLY WITH MODEL TX-Z95]
TU-RCH
TU-LCH
A.GND
OUT-RCH
OUT-LCH
TP-RCH
TP-LCH
SERIAL
GND
POWER ON
REMOCON
+B
AC-1
AC-2
D.GND
SERIAL
REMOCON
POWER ON
COMP-OUT
SURROUND
J952 PHONES
J957-1 L SURROUND SPEAKERS
J957-2 R
SPEAKER IMP:16Ω
J958 SPEAKERS
SPEAKER IMP:6Ω
Z ONLY
* R855, 856
* R863, 864, 865, 866
*IC851 H STK4221 II E.K.Z STK4182 II
*C865 H 100/63 E.K.Z 100/50
*C501, 502 H 8200/63 E.K.Z 6800/50
*C509 H 100/63 E.K.Z 100/50
Q509, 510 2SC1815GR OVER CURRENT DETECT
9V REG (+VCC) Q557 2SC1815GR
Q506, 507 2SA1015
Q502~Q504 AC DETECT
Q502, Q504 2SC945LP
Q511, 512 DC DETECT
Q503 2SA1015GR
Q501 2SB1329Q
8.5 VREG
Q551 2SB1370E
Q551~Q553 12V REG
Q553 2SC945LP
Q554 2SA1015GR POWER RELAY DRIVE
RY551
Q555, Q556 FL FIL ON/OFF SW
Q556 2SD2144S.UV
Q555 2SD2144S.UV
D-POWER
POWER ON:11.5 OFF:-31
AC-F2 ON:-22.5 OFF:-31
AC-F1
*D551~554 H 1N4002 E.K.Z GP15B
※ I E.K.Z ONLY
G TR C.B
Q551 2SA1253N, OR
C POWER-1 C.B
W1
W2
AC-1
GND
AC-2
F2 T2.5A
R1 0.33 1W
R2 0.33 1W
PT1
AC120/220/240V 50/60HZ
YEL
BLU
WHT
BRN
GRY
BLK
T3.15Ax2
E POWER-3 C.B
H ONLY
S101
120V 220V 240V S101 AC VOLTAGE
F POWER-4 C.B
*2 IC851 PIN NO.
H 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22
E.K.Z / / 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 / /
F1 T2.5A
E.Z : AC220V 50HZ
K : AC240V 50HZ
D POWER-2 C.B
E.K.Z ONLY
AUDIO SIGNAL
REC AUDIO SIGNAL
VIDEO SIGNAL
REC VIDEO SIGNAL

EXPLODED VIEW (MX－Z95M)

REF.NO.	PART NO.	DESCRIPTION
A	87-067-582-010	BVT_2+3-15 W/O SLOT(R)
B	87-067-579-010	BVT_2+3-8 W/O SLOT
C	87-067-632-010	BVT_2+3-15
D	87-067-660-010	BVT_2+3-8 W/O SLOT(B)
E	87-067-703-010	BVT_2+3-10 W/O SLOT
F	87-067-688-010	BVTT+3-6
G	87-067-585-010	BVTT+4-6
H	87-067-586-010	BVTT+4-8
I	87-743-095-410	UT_2+3-8 W/O SLOT(B)
J	87-591-094-410	QTT+3-6
K	87-067-747-010	W4.3-14-1
L	81-653-215-010	Special Screw VT_2



MECHANICAL PARTS LIST (MX－Z95M)

PART NO. CHANGED TO	REF. NO.	PART NO.	DESCRIPTION	COMMON MODEL	Q, TY
	1	★09-047-647-010	CABINET, FRONT ASSY(H)	*	1
	1	★09-047-646-010	CABINET, FRONT ASSY(E, K, Z)	*	1
	2	★89-VP5-006-010	KNOB, ROTARY DSL		3
	3	★89-VP5-005-119	KNOB, ROTARY VOLUME		1
	4	★89-VP5-026-019	BUTTON, D1		1
	5	★89-VP5-025-019	GUIDE, LIGHT D1		1
	6	★80-VP5-023-019	BUTTON, POWER	*	1
	7	★80-VP5-024-010	BUTTON, FUNCTION	*	1
	8	★89-VP5-017-019	GUIDE, LIGHT GE1		1
	9	★80-VP5-020-110	BUTTON, GE PRE2	*	1
	10	★80-VP5-014-010	BUTTON, TUNING PRE1	*	1
	11	★80-VP5-022-010	BUTTON, GE DOWN	*	1
	12	★80-VP5-021-010	BUTTON, GE UP	*	1
	13	★89-VP5-027-010	CABINET, STEEL	*	1
	14	★89-AA1-602-010	SHEET, TO3PL MICA		1
	15	---	HEAT SINK		1
	16	---	HOLDER, IC		1
	17	89-VP5-209-010	HOLDER, HEAT SINK H1(E, K, Z)		1
	18	★89-VP5-214-010	G-CUSHION, SQ15-30-12(E, K, Z)		1
	19	89-VP5-631-010	SHIELD CORE, PT F		2
	20	89-VP5-632-010	SHIELD CORE, PT L		1
	21	★82-179-259-010	SHEET, 4-12		2
	22	★87-084-077-010	NYLON RIVET, 3.5-4.5		1
	23	---	WIRE BINDER		1
	24	★80-VP5-030-010	PANEL, REAR(H)	*	1
	24	★80-VP5-029-010	PANEL, REAR(AH)	*	1
	24	★80-VP5-031-010	PANEL, REAR(E)	*	1
	24	★80-VP5-032-010	PANEL, REAR(K)	*	1
	24	★80-VP5-033-010	PANEL, REAR(Z)	*	1
	25	★82-187-797-010	AC CORD(H)		1
	25	★87-034-749-010	AC CORD(AH)		1
	25	★87-034-781-010	AC CORD(E, Z)		1
	25	★87-034-592-010	AC CORD(K)		1
	26	★87-085-185-010	BUSHING, AC CORD(EXCEPT AH)		1
	26	★87-085-184-010	BUSHING, AC CORD(AH)		
	27	---	HOLDER, P.C.B		4
	28	---	CHASSIS, MAIN		1
	29	★87-085-213-010	FOOT, H12.5		2
	30	★89-VW5-212-010	FELT, FOOT		2

REF. NO.	PART NO.	DESCRIPTION
D925	89-VW5-607-010	LED SLH-38VC(CD. SYNC, REC HIGH) (WZ959)
D926	89-VW5-606-010	LED SLH-38MC(FWD, D2)
D927	89-VW5-606-010	LED SLH-38MC(REV, D2)
D928	89-VW5-608-010	LED SLH-38YC(PAUSE, D2)
D929	89-VW5-606-010	LED SLH-38MC(FWD, D1)
D930	89-VW5-606-010	LED SLH-38MC(REV, D1)
D935	89-VW5-607-010	LED SLH-38VC(REC/REC MUTE, D2)
S901	87-036-142-010	TACT SW(OPEN/CLOSE, D2)
S902	87-036-142-010	TACT SW(OPEN/CLOSE, D1)
S903	87-036-142-010	TACT SW(◁◁MS, D1)
S904	87-036-142-010	TACT SW(PLAY/DIR, D1)
S905	87-036-142-010	TACT SW(STOP, D1)
S906	87-036-142-010	TACT SW(MS▷▷, D1)
S907	87-036-142-010	TACT SW(REC/REC MUTE, D2)
S908	87-036-142-010	TACT SW(PAUSE, D2)
S909	87-036-142-010	TACT SW(MS◁◁, D2)
S910	87-036-142-010	TACT SW(PLAY/DIR, D2)
S911	87-036-142-010	TACT SW(STOP, D2)
S912	87-036-142-010	TACT SW(MS▷▷, D2)
S913	87-036-142-010	TACT SW(SYNC. DUBB. NORM.)
S914	87-036-142-010	TACT SW(SYNC. DUBB. HIGH)
S915	87-036-142-010	TACT SW(CD SYNC. REC NORM.)
S916	87-036-142-010	TACT SW(CROSS FADE)
S917	87-036-110-010	PUSH SW(OPEN, D2)
S918	87-036-109-010	PUSH SW(CLOSE, D2)
S919	87-036-109-010	PUSH SW(OPEN, D1)
S920	87-036-110-010	PUSH SW(CLOSE, D1)
S931	87-036-087-010	SLIDE SW(REV MODE)
S932	87-036-087-010	SLIDE SW(TIMER)
S933	87-036-086-010	SLIDE SW(DOLBY B/C NR)
S934	87-036-142-010	TACT SW(CD SYNC. REC HIGH) (WZ959)

=== DECK-1 CIRCUIT BOARD SECTION ===

S1	S6-401-011-740	LEAF SW(PLAY)
S2	S6-401-011-750	LEAF SW(FR)
S3	S6-401-011-730	LEAF SW(CST)
S4	S6-401-011-730	LEAF SW(CR02)
SFR1	★S6-816-010-010	SFR 4. 7K
SFR2	★S6-816-010-010	SFR 4. 7K
SOL1	S1-880-210-130	SOLENOID(PLAY)
SOL2	S1-880-210-130	SOLENOID(F/R)

=== DECK-2 CIRCUIT BOARD SECTION ===

S1	S6-401-011-740	LEAF SW(PLAY)
S2	S6-401-011-750	LEAF SW(FR)
S3	S6-401-011-730	LEAF SW(CST)
S4	S6-401-011-730	LEAF SW(CR02)
S5	S6-401-011-730	LEAF SW(REA)
S6	S6-401-011-730	LEAF SW(REB)
SFR1	★S6-816-010-010	SFR 4. 7K
SFR2	★S6-816-010-010	SFR 4. 7K
SOL1	S1-880-210-130	SOLENOID(PLAY)
SOL2	S1-880-210-130	SOLENOID(F/R)

=== RELAY(D1) CIRCUIT BOARD SECTION ===

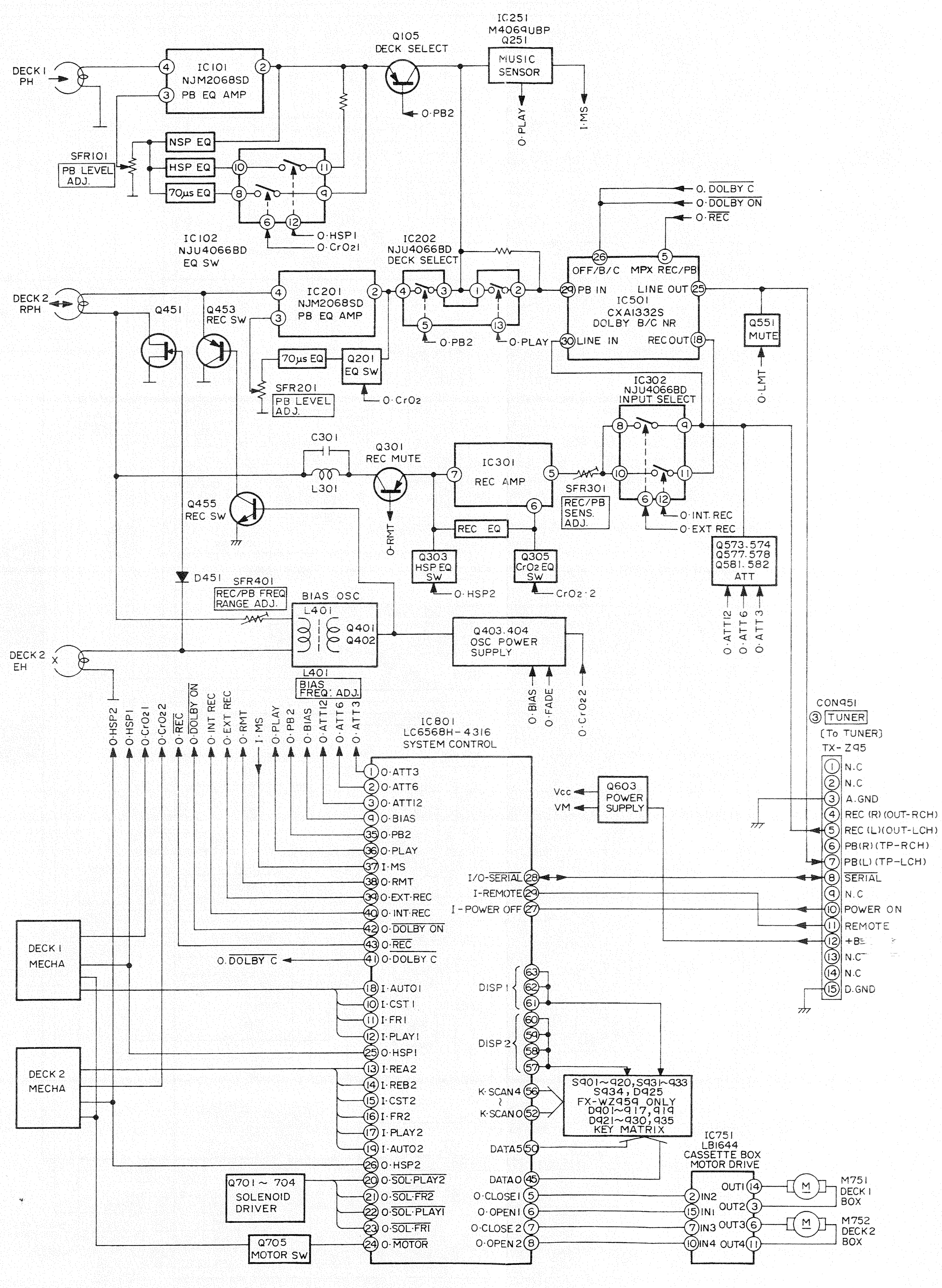
=== RELAY(D2) CIRCUIT BOARD SECTION ===

=== MISCELLANEOUS ===

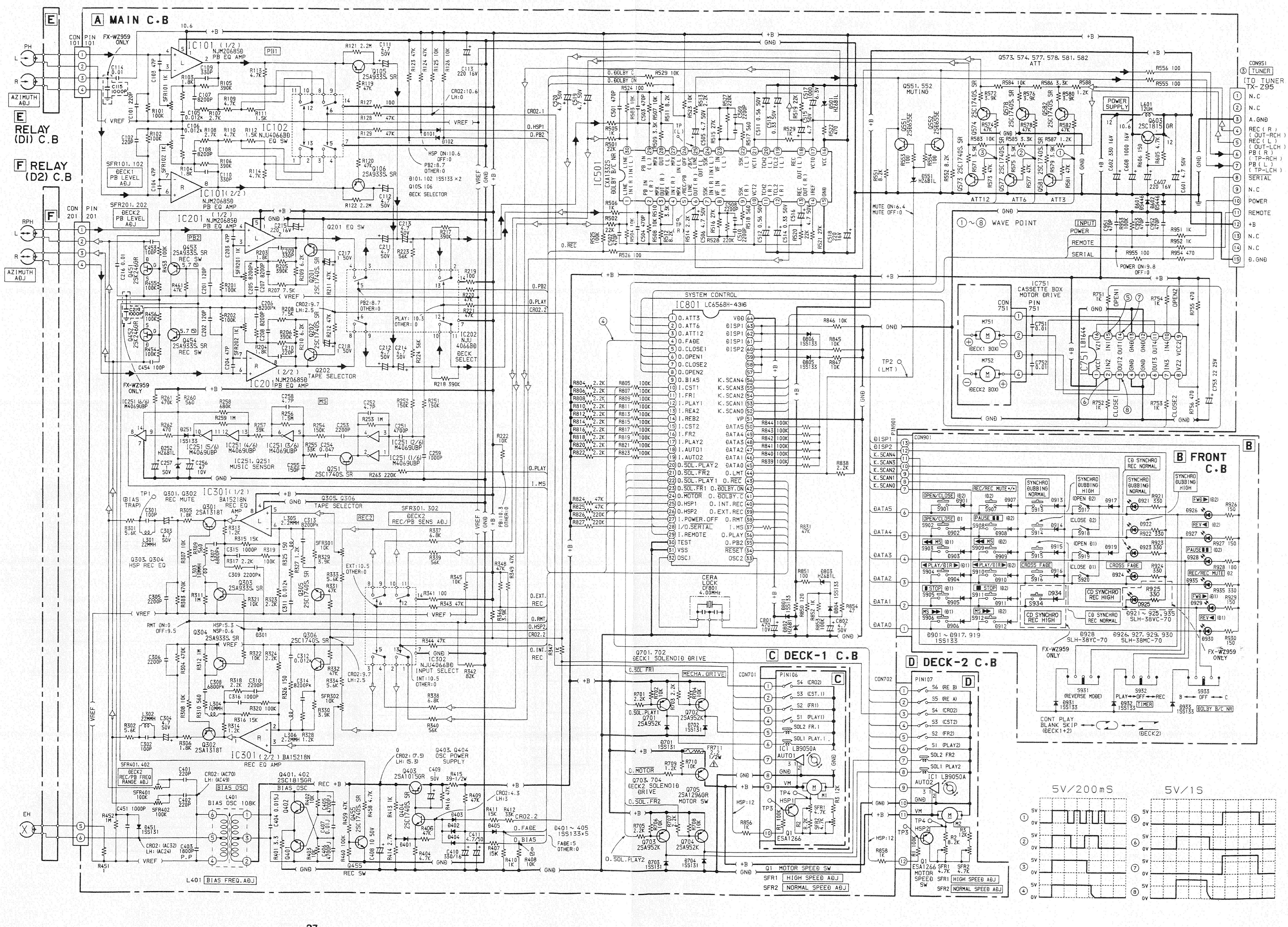
CON951	89-VW5-610-010	CORD, FG 15P(3 TUNER)

REF. NO.	PART NO.	DESCRIPTION
M1	S6-005-030-420	MOTOR MMI-6H2LWK(D1)
M2	S6-005-030-420	MOTOR MMI-6H2LWK(D2)
M751	87-045-305-010	MOTOR RF-500TB(D1) (BOX)
M752	87-045-305-010	MOTOR RF-500TB(D2) (BOX)
PH	S6-204-070-090	PB HEAD(D1)
RPEH	S6-204-040-010	R/P/E, HEAD(D2)

BLOCK DIAGRAM (FX – WZ959/WZ95)

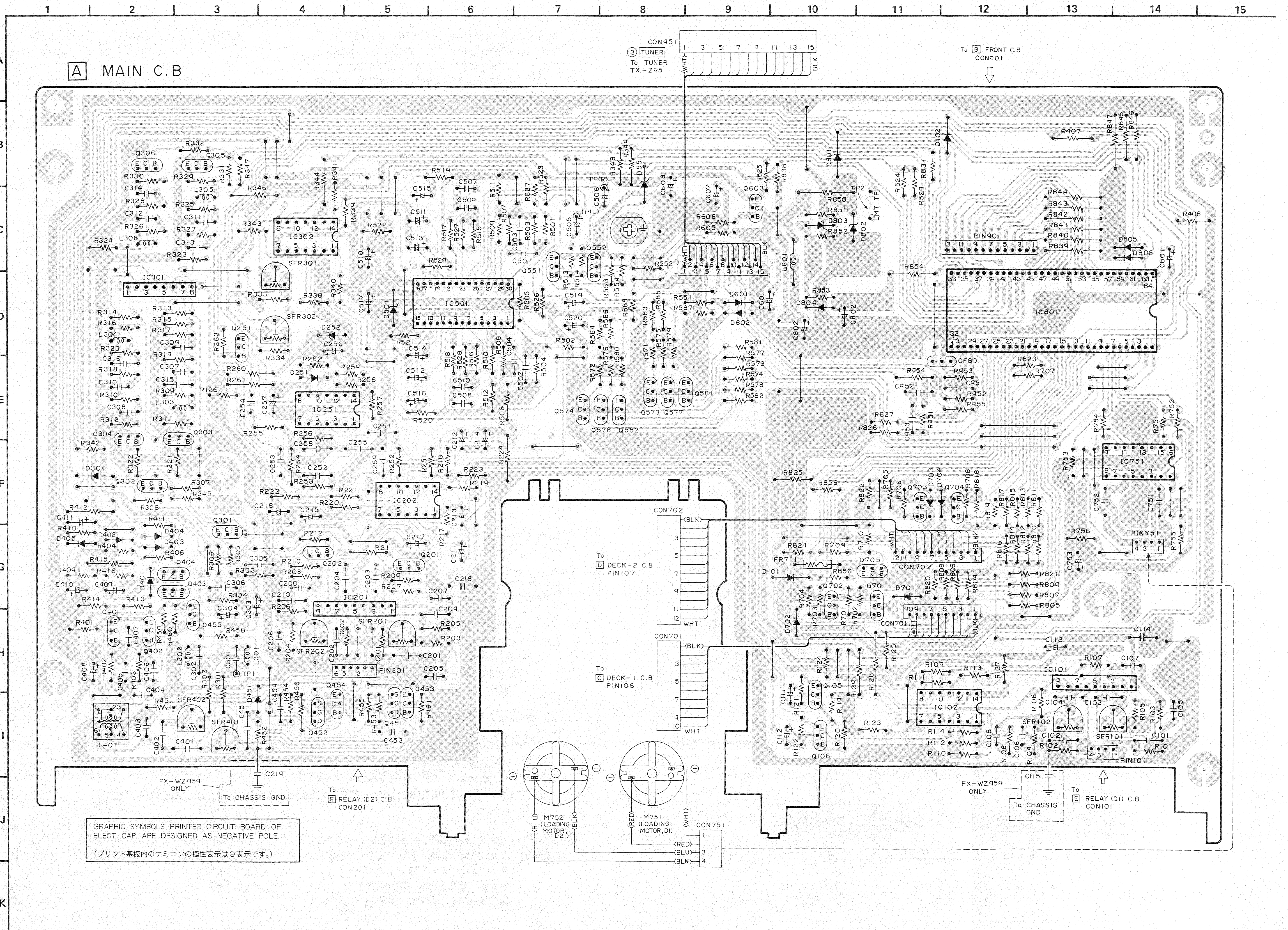

DECK 1 PH
IC101 NJM2068SD PB EQ AMP
Q105 DECK SELECT
IC251 M4069UBP Q251
MUSIC SENSOR
O·PB2
O·PLAY
I·MS
NSP EQ
HSP EQ
70µs EQ
SFR101 PB LEVEL ADJ.
IC102 NJU4066BD EQ SW
O·HSP1
O·CrO2I
IC202 NJU4066BD DECK SELECT
O. DOLBY C
O·DOLBY ON
O·REC
OFF/B/C MPX REC/PB
PB IN
LINE OUT
IC501 CXA1332S DOLBY B/C NR
LINE IN
REC OUT
Q551 MUTE
O·LMT
DECK 2 RPH
Q451
Q453 REC SW
IC201 NJM2068SD PB EQ AMP
70µs EQ
Q201 EQ SW
SFR201 PB LEVEL ADJ.
O·CrO2
IC302 NJU4066BD INPUT SELECT
C301
L301
Q301 REC MUTE
IC301 REC AMP
SFR301 REC/PB SENS. ADJ.
O·INT.REC
O·EXT REC
Q455 REC SW
O·RMT
REC EQ
Q303 HSP EQ SW
Q305 CrO2 EQ SW
O·HSP2
CrO2·2
Q573·574 Q577·578 Q581·582 ATT
O·ATT12
O·ATT6
O·ATT3
D451
SFR401 REC/PB FREQ RANGE ADJ.
BIAS OSC
L401
Q401 Q402
L401 BIAS FREQ. ADJ.
Q403·404 OSC POWER SUPPLY
O·BIAS
O·FADE
O·CrO2 2
DECK 2 EH
IC801 LC6568H-4316 SYSTEM CONTROL
Q603 POWER SUPPLY
Vcc
VM
CON951
TUNER
(To TUNER) TX-Z95
N.C
A.GND
REC (R) (OUT-RCH)
REC (L) (OUT-LCH)
PB(R) (TP-RCH)
PB(L) (TP-LCH)
SERIAL
POWER ON
REMOTE
+B
D.GND
I/O-SERIAL
I-REMOTE
I-POWER OFF
DECK 1 MECHA
DECK 2 MECHA
DISP 1
DISP 2
K-SCAN4
K-SCAN0
S901~920, S931~933 S934, D925 FX-WZ959 ONLY D901~917, 919 D921~930, 935 KEY MATRIX
DATA5
DATA0
IC751 LB1644 CASSETTE BOX MOTOR DRIVE
Q701~704 SOLENOID DRIVER
Q705 MOTOR SW
M751 DECK 1 BOX
M752 DECK 2 BOX
O·CLOSE1
O·OPEN1
O·CLOSE2
O·OPEN2

SCHEMATIC DIAGRAM (FX — WZ959/WZ95)



A MAIN C.B
E RELAY (D1) C.B
F RELAY (D2) C.B
B FRONT C.B
C DECK-1 C.B
D DECK-2 C.B
AZIMUTH ADJ
FX-WZ959 ONLY
IC101 (1/2) NJM2068SD PB EQ AMP
IC101 (2/2) NJM2068SD PB EQ AMP
IC102 NJU4066BD EQ SW
Q105, 106 DECK SELECTOR
SFR101, 102 DECK1 PB LEVEL ADJ
SFR201, 202 DECK2 PB LEVEL ADJ
IC201 (1/2) NJM2068SD PB EQ AMP
IC201 (2/2) NJM2068SD PB EQ AMP
Q201 EQ SW
Q202 TAPE SELECTOR
IC202 NJU4066BD DECK SELECT
Q453, Q454 2SA933S SR REC SW
IC251 M4069UBP MUSIC SENSOR
Q251 2SC1740S SR
IC301 (1/2) BA15218N REC EQ AMP
IC301 (2/2) BA15218N REC EQ AMP
Q301, Q302 REC MUTE
Q303, Q304 HSP REC EQ
Q305, Q306 TAPE SELECTOR
SFR301, 302 DECK2 REC/PB SENS ADJ
IC302 NJU4066BD INPUT SELECT
SFR401, 402 DECK2 REC/PB FREQ RANGE ADJ
BIAS OSC
L401 BIAS OSC 108K
L401 BIAS FREQ. ADJ
Q401, 402 2SC1815GR
Q403, Q404 OSC POWER SUPPLY
Q455 REC SW
D401 ~ 405 1SS133×5
IC501 CXA1332S DOLBY B/C NR
Q573, 574, 577, 578, 581, 582 ATT
Q551, 552 MUTING
MUTE ON:6.4 MUTE OFF:0
POWER SUPPLY
CON951 TO TUNER TX-Z95
1 N.C
2 N.C
3 A.GND
4 REC (R) (OUT-RCH)
5 REC (L) (OUT-LCH)
6 PB (R) (TP-RCH)
7 PB (L) (TP-LCH)
8 SERIAL
9 N.C
10 POWER
11 REMOTE
12 +B
13 N.C
14 N.C
15 D.GND
①~⑧ WAVE POINT
INPUT POWER REMOTE SERIAL
POWER ON:9.8 OFF:0
IC751 CASSETTE BOX MOTOR DRIVE
IC751 LB1644
M751 (DECK1 BOX)
M752 (DECK2 BOX)
SYSTEM CONTROL
IC801 LC6568H-4316
1 O.ATT3
2 O.ATT6
3 O.ATT12
4 O.FADE
5 O.CLOSE1
6 O.OPEN1
7 O.CLOSE2
8 O.OPEN2
9 O.BIAS
10 I.CST1
11 I.FR1
12 I.PLAY1
13 I.REA2
14 I.REB2
15 I.CST2
16 I.FR2
17 I.PLAY2
18 I.AUTO1
19 I.AUTO2
20 O.SOL.PLAY2
21 O.SOL.FR2
22 O.SOL.PLAY1
23 O.SOL.FR1
24 O.MOTOR
25 O.HSP1
26 O.HSP2
27 I.POWER.OFF
28 I/O.SERIAL
29 I.REMOTE
30 TEST
31 VSS
32 OSC1
VDD 64
DISP1 63
DISP1 62
DISP1 61
DISP2 60
K.SCAN4 56
K.SCAN3 55
K.SCAN2 54
K.SCAN1 53
K.SCAN0 52
VP 51
DATA5 50
DATA4 49
DATA3 48
DATA2 47
DATA1 46
DATA0 45
O.LMT 44
O.DOLBY.ON 43
O.REC 42
O.DOLBY.C 41
O.INT.REC 40
O.EXT.REC 39
O.RMT 38
I.MS 37
O.PLAY 36
O.PB2 35
RESET 34
OSC2 33
CERA LOCK CF801 4.00MHz
TP2 (LMT)
Q701, 702 DECK1 SOLENOID DRIVE
MECHA. DRIVE
Q703, 704 DECK2 SOLENOID DRIVE
Q705 2SA1296GR MOTOR SW
Q1 MOTOR SPEED SW
SFR1 HIGH SPEED ADJ
SFR2 NORMAL SPEED ADJ
S4 (CRO2)
S3 (CST.1)
S2 (FR1)
S1 (PLAY1)
SOL2 FR.1
SOL1 PLAY.1
IC1 LB9050A AUTO1
S6 (RE B)
S5 (RE A)
S2 (FR2)
S1 (PLAY2)
SOL2 FR2
SOL1 PLAY2
IC1 LB9050A AUTO2
OPEN/CLOSE (D2)
OPEN/CLOSE D1
REC/REC MUTE
PAUSE (D2)
PLAY/DIR (D1)
PLAY/DIR (D2)
CROSS FADE
STOP (D1)
STOP (D2)
CD SYNCHRO REC HIGH
CD SYNCHRO REC NORMAL
SYNCHRO DUBBING NORMAL
SYNCHRO DUBBING HIGH
D921 ~ 925, 935 SLH-38VC-70
D928 SLH-38YC-70
D926, 927, 929, 930 SLH-38MC-70
D901 ~ D917, 919 1SS133
S931 (REVERSE MODE)
S932 PLAY→OFF→REC
S933 B ← OFF → C
TIMER
DOLBY B/C NR
CONT PLAY BLANK SKIP (DECK1+2)
(DECK2)
5V/200mS
5V/1S

WIRING — 1 (FX — WZ959/WZ95)

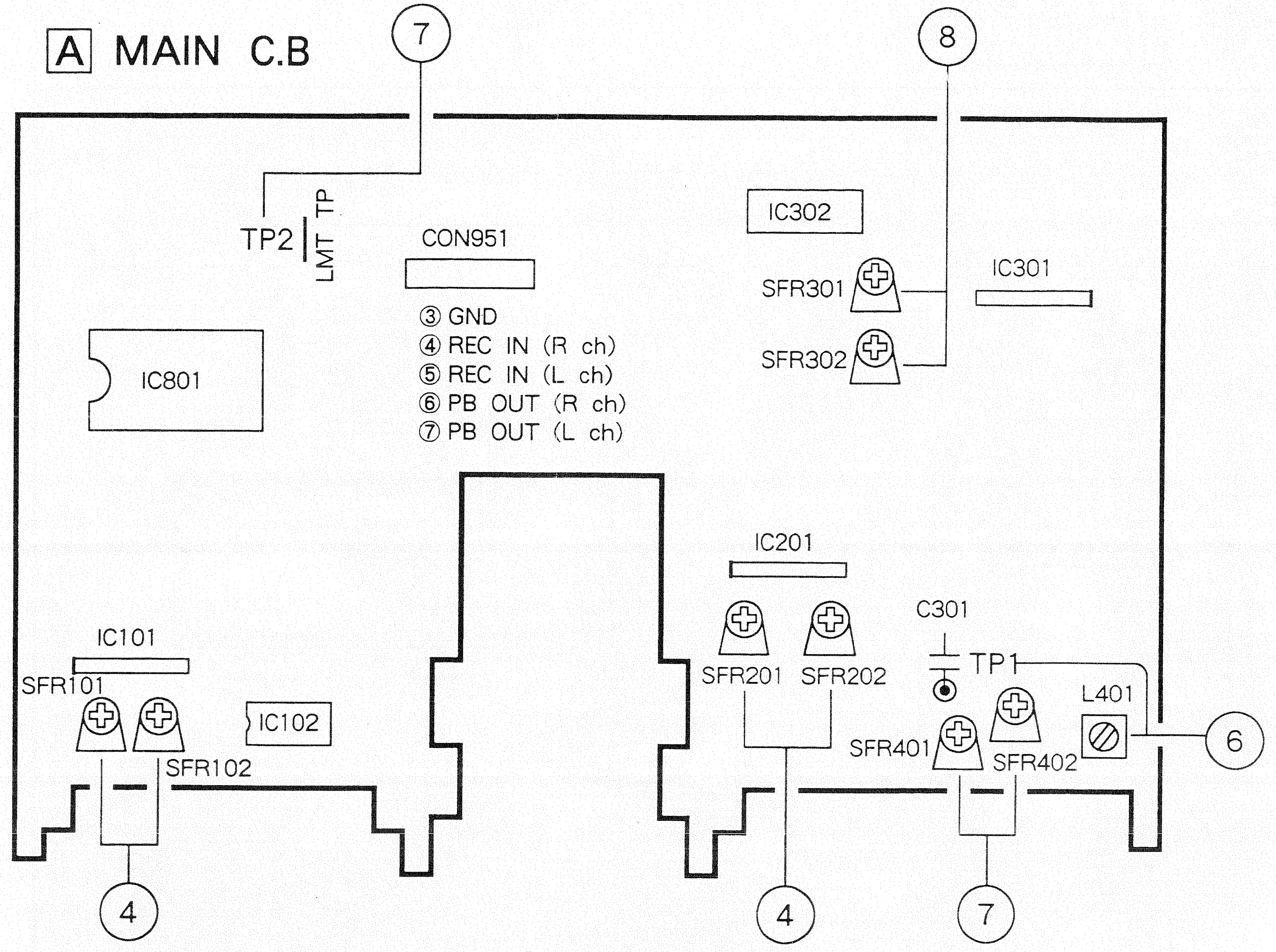

A MAIN C.B
CON951
③ TUNER
To TUNER TX-Z95
WHT
BLK
To B FRONT C.B CON901
PIN901
IC801
IC301
IC302
IC501
IC251
IC202
IC201
IC751
IC101
IC102
SFR301
SFR302
SFR201
SFR202
SFR401
SFR402
SFR101
SFR102
CF801
TP(R)
TP(L)
TP1
TP2
LMT TP
CON702
CON701
CON751
PIN751
PIN201
PIN101
To D DECK-2 C.B PIN107
To C DECK-1 C.B PIN106
M752 (LOADING MOTOR D2)
M751 (LOADING MOTOR D1)
(RED)
(BLU)
(BLK)
FX-WZ959 ONLY
To CHASSIS GND
To F RELAY (D2) C.B CON201
To E RELAY (D1) C.B CON101
L401
FR711
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15
A B C D E F G H I J K

GRAPHIC SYMBOLS PRINTED CIRCUIT BOARD OF ELECT. CAP. ARE DESIGNED AS NEGATIVE POLE.

(プリント基板内のケミコンの極性表示は⊖表示です。)

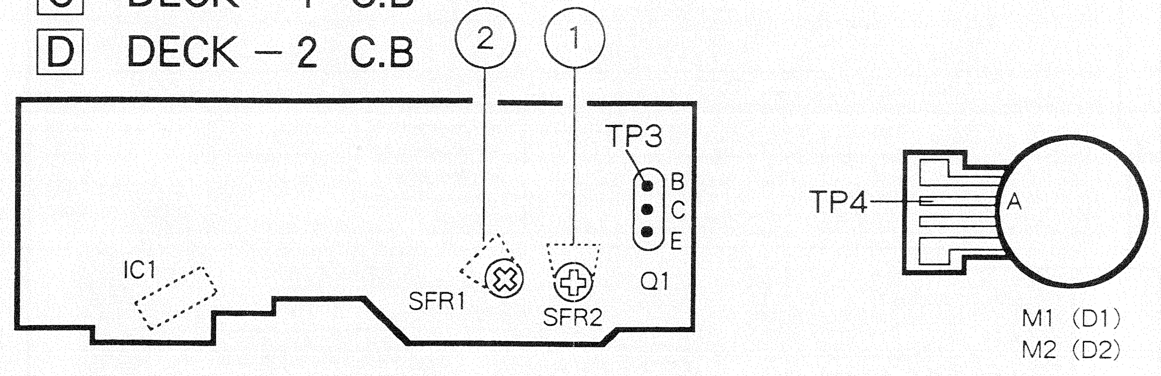
ADJUSTMENT (FX−WZ959/WZ95)

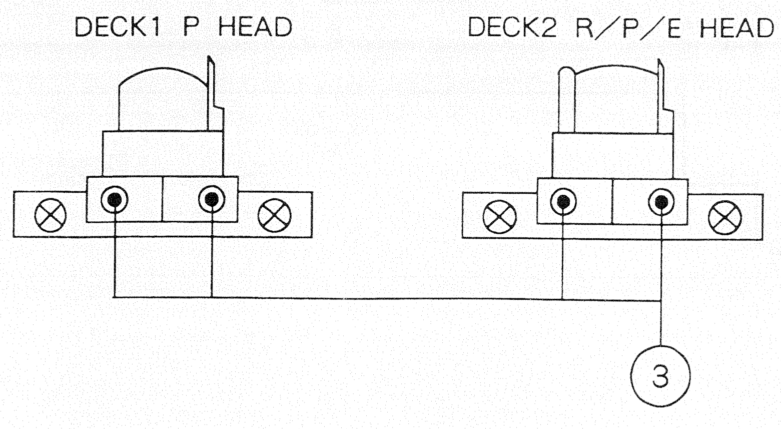
A MAIN C.B



C DECK−1 C.B

D DECK−2 C.B





1. Normal Speed Adjustment (DECK1, DECK2)
   Settings : • Test tape : TTA − 100 (TTA − 111S)
   • Test point : PB − OUT (CON951)
   • Adjustment Location : SFR2 (DECK1, 2)
   Method : Play back the test tape, adjust for 3000Hz.

2. High Speed Adjustment (DECK1, DECK2)
   Settings : • Test tape : TTA − 100 (TTA − 111S)
   • Test point : PB − OUT (CON951)
   • Adjustment Location : SFR1 (DECK1, 2)
   Method : Play back the test tape, and make the high speed condition to be shorted between TP3 and TP4. Adjust for 5400Hz ± 15Hz.

3. Head Azimuth Adjustment (DECK1, DECK2)
   Settings : • Test tape : TTS − 310
   (TTA − 317E, SCC − 1429)
   • Test point : PB − OUT (CON951)
   • Adjustment Location : Head azimuth adjustment screw
   Method : Play back the 10kHz signal of the test tape and adjust so that the output becomes maximum.
   Next, perform on each FWD PLAY and REV PLAY mode.

4. PB Level Adjustment (DECK1, DECK2)
   Settings : • Test tape : TTS − 200 (TTA − 161, TCC − 130)
   • Test point : PB − OUT (CON951)
   • Adjustment Location : SFR101 (DECK1, Lch)
   SFR102 (DECK1, Rch)
   SFR201 (DECK2, Lch)
   SFR202 (DECK2, Rch)
   Method : Play back the test tape and adjust so that the output becomes 300mV ± 20mV.

5. PB Frequency Response Check (DECK1, DECK2)
   Settings : • Test tape : TTS − 310
   (TTA − 317E, SCC − 1429)
   • Test point : PB − OUT (CON951)
   Method : Play the 315Hz and 10kHz signals of the test tape and check the output of the 10kHz signal is 0dB ± 2.5dB with respect to that of the 315Hz signal.

6. Bias Frequency Adjustment (DECK2)
   Settings : • Test tape : TTA − 600 (TTA − 119K)
   • Test point : TP1
   • Adjustment Location : L401
   Method : Set DECK2 to the record mode and adjust L401 so that the frequency at TP1 is 108kHz ± 1kHz.

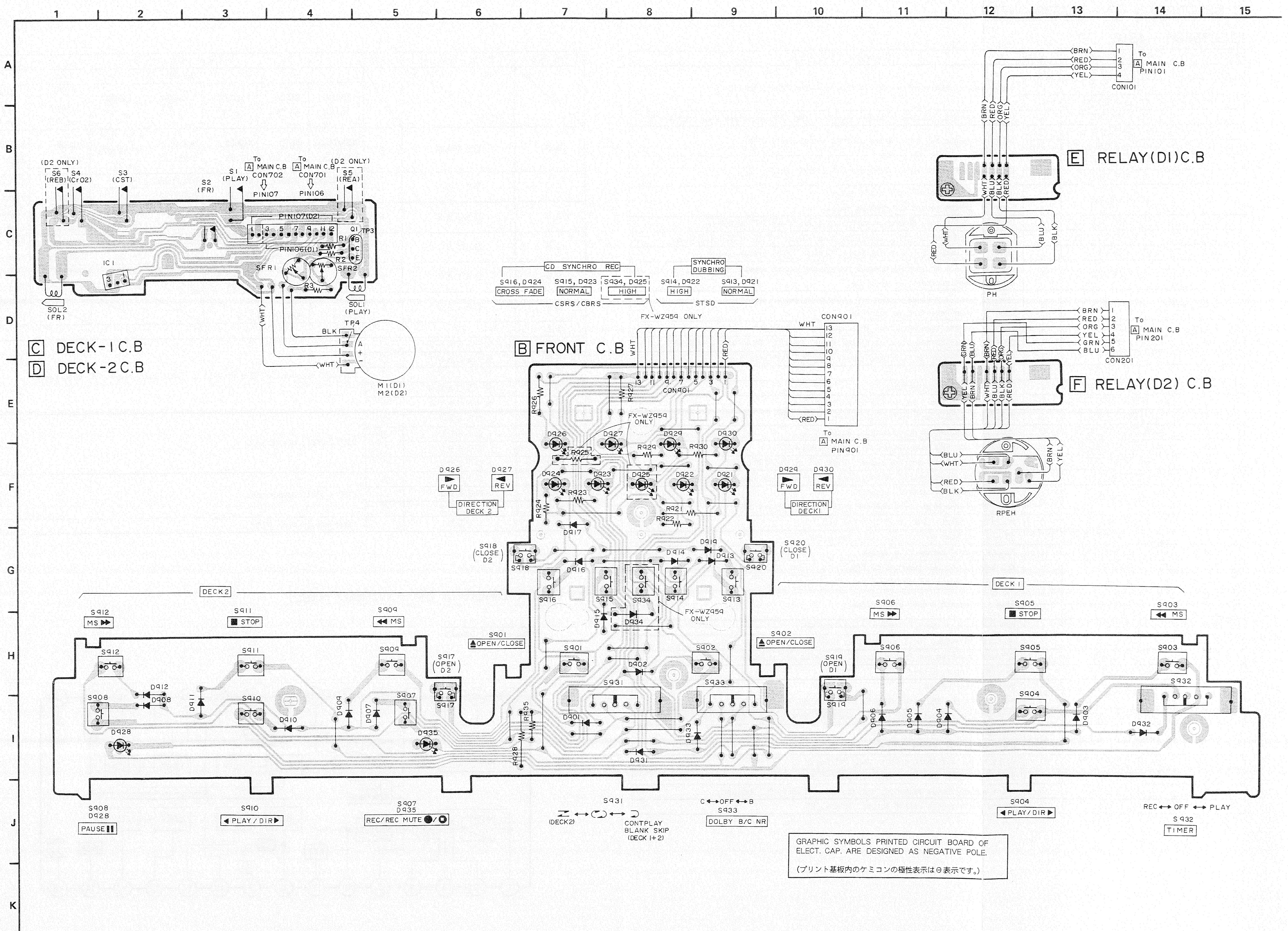
7. REC/PB Frequency Response Adjustment (DECK2)
   Settings : • Test tape : TTA − 600 (TTA − 119K)
   • Test point : PB − OUT (CON951)
   • Input signal : REC − IN (CON951)
   • Adjustment Location : SFR401 (Lch)
   SFR402 (Rch)
   Method : Connect TP2 (LMT TP) to ground (chassis), apply a 1kHz signal and adjust attenuator so that the level at the PB OUT is 21mV.
   Record and play back the 1kHz and 10kHz signals and adjust so that the output level of 10kHz signal is 0dB + 2dB, − 0.5dB for 1kHz signal. After adjustment, remove the grounding lead wire.

8. REC/PB Sensitivity Adjustment (DECK2)
   Settings : • Test tape : TTA − 600 (TTA − 119K)
   • Test point : PB − OUT (CON951)
   • Input signal : REC − IN (CON951)
   • Adjustment Location : SFR301 (Lch)
   SFR302 (Rch)
   Method : Connect TP2 (LMT TP) to ground (chassis), apply a 1kHz signal and adjust attenuator so that the level at the PB OUT is 21mV.
   Record and play back the 1kHz signal and adjust SFR301 and SFR302 so that the output level of is 21mV ± 1.5dB. After adjustment, remove the grounding lead wire.

PRACTICAL SERVICE FIGURE (FX−WZ959/WZ95)

PB output level :	300mV ± 1dB TTS − 200 (TTA − 161, TCC − 130)
REC/PB output level :	210mV ± 1dB (PB OUT, − 16.5dBV 1kHz)
Distortion (REC/PB) :	Less than 2.0% (NORM., CrO2)
Erasing ratio :	More than 60dB
Crosstalk :	More than 60dB
Channel separation :	More than 30dB
Noise (REC/PB) :	Less than 3.3mV/1.6mV/1.3mV (DOLBY OFF/B/C NORM.) Less than 2.2mV/1.3mV/1.0mV (DOLBY OFF/B/C CrO2)
Noise (PB) :	Less than 3.2mV/1.5mV/1.2mV (DOLBY OFF/B/C NORM.) Less than 2.2mV/1.2mV/1.0mV (DOLBY OFF/B/C CrO2)
Recording bias frequency :	108kHz
Tape speed :	3000Hz ± 1.5%
Wow & flutter (W.RMS) :	Less than 0.13% (DECK1, 2)
Take − up torque :	30∼60g-cm (DECK1, 2)
F.F & REW torque :	55∼120g-cm (DECK1, 2)
Back tension :	2∼6g-cm (DECK1, 2)
Test tape :	NORMAL : TTA − 600 (TTA − 119K) CrO2 : TTA − 610 (TTA − 119H)

WIRING — 2 (FX — WZ959/WZ95)


1
2
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10
11
12
13
14
15
A
B
C
D
E
F
G
H
I
J
K
C DECK-1 C.B
D DECK-2 C.B
(D2 ONLY)
S6 (REB)
S4 (CrO2)
S3 (CST)
S2 (FR)
S1 (PLAY)
To A MAIN C.B CON702 PIN107
To A MAIN C.B CON701 PIN106
(D2 ONLY) S5 (REA)
PIN107(D2)
PIN106(D1)
Q1
TP3
R1
R2
R3
B
C
E
SFR1
SFR2
IC1
SOL2 (FR)
SOL1 (PLAY)
TP4
BLK
WHT
M1(D1) M2(D2)
A
+
-
B FRONT C.B
CD SYNCHRO REC
S916, D924 CROSS FADE
S915, D923 NORMAL
S934, D925 HIGH
CSRS/CBRS
SYNCHRO DUBBING
S914, D922 HIGH
S913, D921 NORMAL
STSD
FX-WZ959 ONLY
CON901
WHT
RED
To A MAIN C.B PIN901
13
12
11
10
9
8
7
6
5
4
3
2
1
R926
R927
R925
R923
R924
R921
R922
R929
R930
D926
D927
D929
D930
D924
D923
D925
D922
D921
D917
D916
D914
D919
D913
D915
D934
FX-WZ959 ONLY
D926 FWD
D927 REV
DIRECTION DECK 2
D929 FWD
D930 REV
DIRECTION DECK1
S918 (CLOSE D2)
S920 (CLOSE D1)
S916
S915
S934
S914
S913
DECK2
DECK 1
S912 MS ▶▶
S911 ■ STOP
S909 ◀◀ MS
S901 ▲OPEN/CLOSE
S902 ▲OPEN/CLOSE
S906 MS ▶▶
S905 ■ STOP
S903 ◀◀ MS
S917 (OPEN D2)
S919 (OPEN D1)
S908
S910
S907
D912
D908
D911
D910
D909
D907
D928
D935
S901
S902
D902
S931
S933
D901
D933
D931
R935
R928
S906
S905
S903
S904
S932
D906
D905
D904
D903
D932
S908 D928 PAUSE ▮▮
S910 ◀ PLAY/DIR ▶
S907 D935 REC/REC MUTE ●/■
S931 (DECK2) CONTPLAY BLANK SKIP (DECK 1+2)
C ↔ OFF ↔ B S933 DOLBY B/C NR
S904 ◀ PLAY/DIR ▶
REC ↔ OFF ↔ PLAY S932 TIMER
BRN
RED
ORG
YEL
To A MAIN C.B PIN101
CON101
E RELAY(D1)C.B
WHT
BLU
BLK
PH
BRN
RED
ORG
YEL
GRN
BLU
To A MAIN C.B PIN201
CON201
F RELAY(D2) C.B
RPEH

GRAPHIC SYMBOLS PRINTED CIRCUIT BOARD OF ELECT. CAP. ARE DESIGNED AS NEGATIVE POLE.

(プリント基板内のケミコンの極性表示は⊖表示です。)

IC DESCRIPTION (FX－WZ959／WZ95)

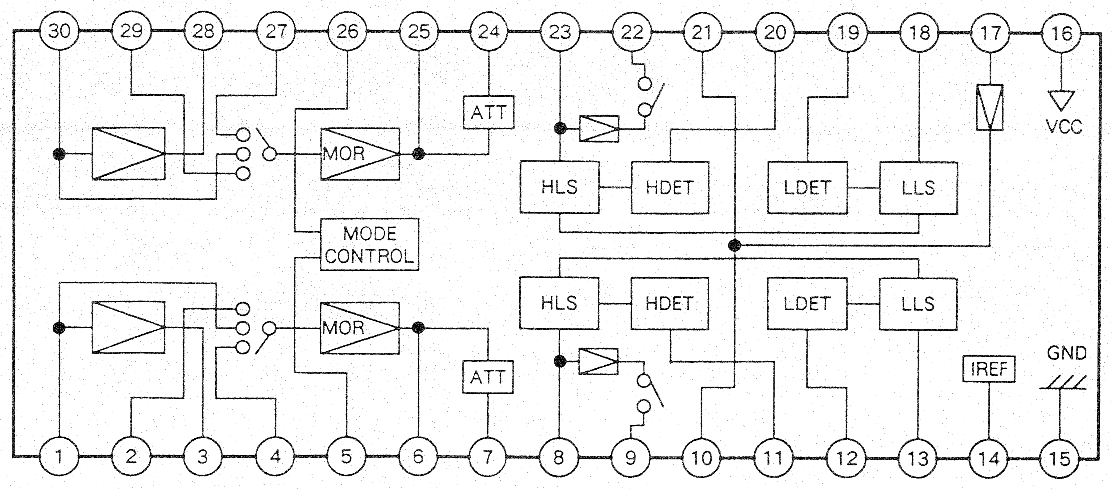
IC,LC6568H－4316

Pin No.	Pin Name	I/O	Description
1	O·ATT3	O	Input signal level control output from the cross fade. Active “H”.
2	O·ATT6	O	
3	O·ATT12	O	
4	O·FADE	O	DECK 2 Recording bias oscillation output at the CBRS and cross fade. Active “H”.
5	O·CLOSE1	O	DECK 1 Cassette box motor drive control output. Active “H”.
6	O·OPEN1	O	
7	O·CLOSE2	O	DECK 2 Cassette box motor drive control output. Active “H”.
8	O·OPEN2	O	
9	O·BIAS	O	DECK 2 Recording bias oscillation output. Goes “H” in the record and dubbing modes.
10	I·CST1	I	DECK 1 Cassette tape detection switching input. Goes “L” switch on.
11	I·FR1	I	DECK 1 FF and FWD detection switching input. Goes “L” FF or RWD switch on.
12	I·PLAY1	I	DECK 1 PLAY detection switching input. Goes “L” PLAY switch on.
13	I·REA2	I	DECK 2 Side A’s accidental erasure prevention switch input. Goes “L” when recording is possible.
14	I·REB2	I	DECK 2 Side B’s accidental erasure prevention switch input. Goes “L” when recording is possible.
15	I·CST2	I	DECK 2 Cassette tape detection switching input. Goes “L” switch on.
16	I·FR2	I	DECK 2 FF and RWD detection switching input. Goes “L” FF or RWD switch on.
17	I·PLAY2	I	DECK 2 PLAY detection switching input. Goes “L” PLAY switch on.
18	I·AUTO1	I	DECK 1 Reel disk pulse input.
19	I·AUTO2	I	DECK 2 Reel disk pulse input.
20	O·$\overline{\text{SOL·PLAY2}}$	O	DECK 2 PLAY solenoid drive output. Active “L”.
21	O·$\overline{\text{SOL·FR2}}$	O	DECK 2 FF and RWD solenoid drive output. Active “L”.
22	O·$\overline{\text{SOL·PLAY1}}$	O	DECK 1 PLAY solenoid drive output. Active “L”.
23	O·$\overline{\text{SOL·FR1}}$	O	DECK 1 FF and RWD solenoid drive output. Active “L”.
24	O·$\overline{\text{MOTOR}}$	O	DECK 1/2 Main motor control output. Goes “L” in the STOP mode.
25	O·HSP1	O	DECK 1 High speed control output. Goes “H” in the high speed dubbing mode.
26	O·HSP2	O	DECK 2 High speed control output. Goes “H” in the high speed dubbing mode. (Tape deck and CD)
27	I·POWER OFF	I	Power off signal input. Goes “L” when off.
28	I/O $\overline{\text{SERIAL}}$	I/O	CD and amplifier serial data input and output.
29	I·REMOTE	I	Remote control serial data input.
30	TEST	—	MPU test pin to be connected to VSS.
31	VSS	—	MPU I/O and power supply common pin.
32	OSC1	—	Pins to generate a 4MHz clock signal.
33	OSC2	—	
34	$\overline{\text{RESET}}$	I	MPU reset input. Goes “L” input resets the MPU.
35	O·PB2	O	DECK 1/2 PB output level control pin. Goes “H” in the DECK 2 PB.
36	O·PLAY	O	CUE/REVIEW muting and MS sensitivity switching output. Goes “H” PB.
37	I·MS	I	MS signal input. Active “H”.
38	O·RMT	O	Record muting output. Goes “H” in the REC mute, recording I/O and REC pause.
39	O·EXT·REC	O	DECK 2 Recording switching output. Goes “H” DECK 1 PB and DECK 2 REC.
40	O·INT·REC	O	DECK 2 Recording switching output. Goes “H” in the record and dubbing modes. Goes “L” in the O·EXT·REC “H”.
41	O·$\overline{\text{DOLBY C}}$	O	Dolby NR B/C switching output. Goes “H” Dolby C.
42	O·$\overline{\text{DOLBY ON}}$	O	Dolby NR ON/OFF switching output. Goes “H” Dolby on.
43	O·$\overline{\text{REC}}$	O	Dolby encode/decode switching output. Goes “H” REC, “L” dubbing.
44	O·LMT	O	Record and playback muting output. Active “H”.

Pin No.	Pin Name	I/O	Description						
			KEY DATA IN						
			KSCAN0 is “H”	KSCAN1 is “H”	KSCAN2 is “H”	KSCAN3 is “H”	KSCAN4 is “H”	DISP1 lights at “H”	DISP2 lights at “H”
45	DATA0	I	OPEN/CLOSE 2 KEY IN	REC2 KEY IN	N·DUBB KEY IN	BOX OPEN 2 KEY IN	CONT PLAY BLANK SKIP SW IN	N·DUBB lights	F·PLAY2 lights
46	DATA1	I	OPEN/CLOSE 1 KEY IN	PAUSE2 KEY IN	H·DUBB KEY IN	BOX CLOSE 2 KEY IN	⇄ SW IN	H·DUBB lights	R·PLAY2 lights
47	DATA2	I	RWD1 KEY IN	RWD2 KEY IN	CD·REC KEY IN	BOX OPEN 1 KEY IN	TIMER PLAY SW IN	CD·REC lights	PAUSE2 lights
48	DATA3	I	PLAY1 KEY IN	PLAY2 KEY IN	CROSS FADE KEY IN	BOX CLOSE 1 KEY IN	TIMER REC SW IN	CROSS FADE lights	REC2 lights
49	DATA4	I	STOP1 KEY IN	STOP2 KEY IN	CD·HSP·REC KEY IN		DOLBY B SW IN	CD·HSP·REC lights	F·PLAY1 lights
50	DATA5	I	FF1 KEY IN	FF2 KEY IN					R·PLAY1 lights
51	VP	—	GND.						
52	K·SCAN0	O	KEY SCAN outputs for DATA 0～DATA 5. These pins output “H” when reset.						
53	K·SCAN1	O							
54	K·SCAN2	O							
55	K·SCAN3	O							
56	K·SCAN4	O							
57	DISP2	O	DISP 2 INDI. output pin.						
58	DISP2	O							
59	DISP2	O							
60	DISP2	O							
61	DISP1	O	DISP 1 INDI. output pin.						
62	DISP1	O							
63	DISP1	O							
64	VDD	—	Power supply pin. (+5V)						

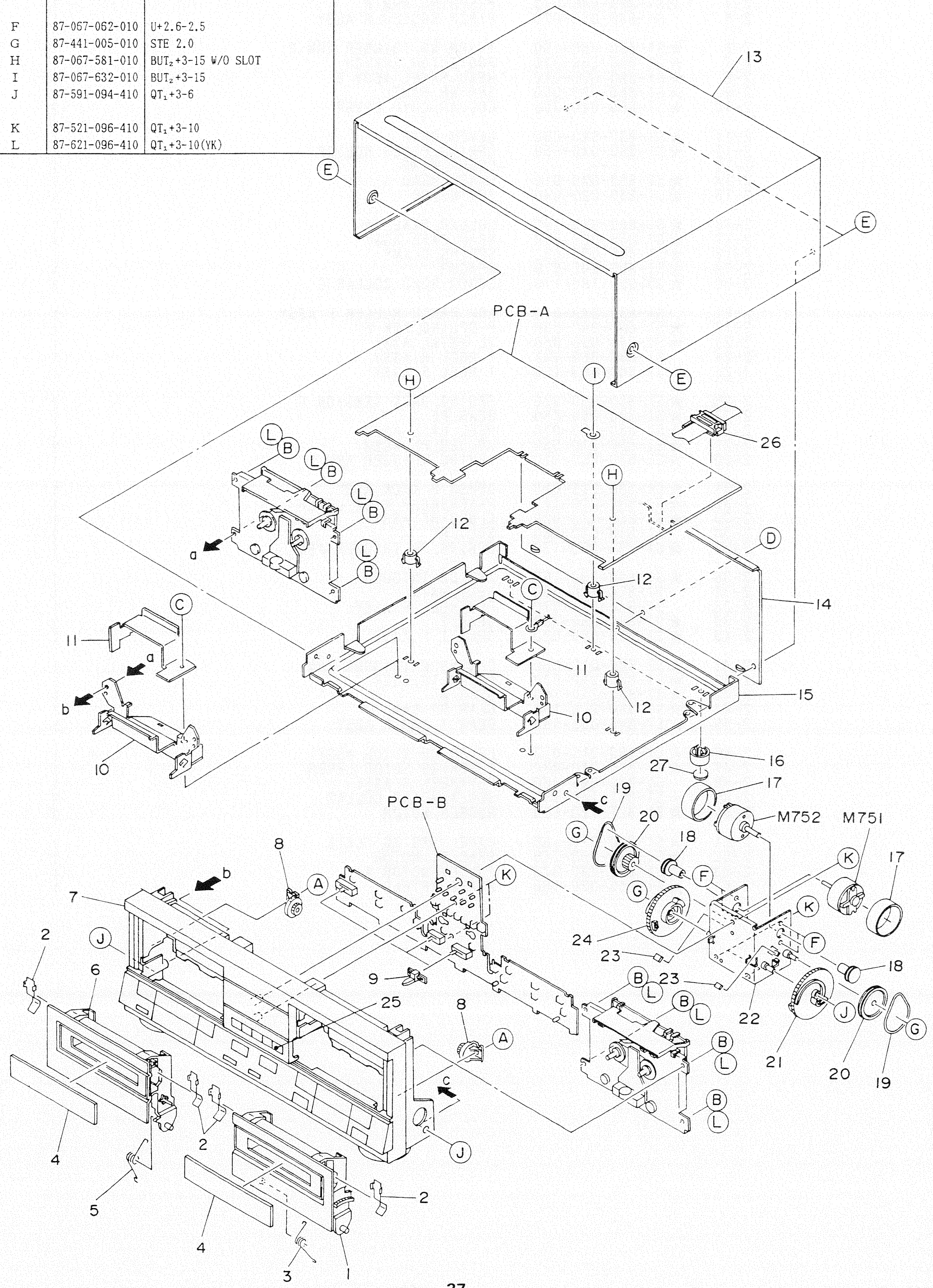
IC BLOCK DIAGRAM (FX－WZ959／WZ95)

IC,CXA1332S



EXPLODED VIEW — 1 (FX — WZ959／WZ95)

REF.NO.	PART NO.	DESCRIPTION
A	87-067-703-010	BVT$_2$+3-10 W/O SLOT
B	87-621-097-410	QT$_1$+3-12(Y)
C	87-067-584-010	BVT$_2$+3-6 W/O SLOT
D	87-067-660-010	BVT$_2$+3-8 W/O SLOT
E	87-743-095-410	UT$_2$+3-8[B]
F	87-067-062-010	U+2.6-2.5
G	87-441-005-010	STE 2.0
H	87-067-581-010	BUT$_2$+3-15 W/O SLOT
I	87-067-632-010	BUT$_2$+3-15
J	87-591-094-410	QT$_1$+3-6
K	87-521-096-410	QT$_1$+3-10
L	87-621-096-410	QT$_1$+3-10(YK)

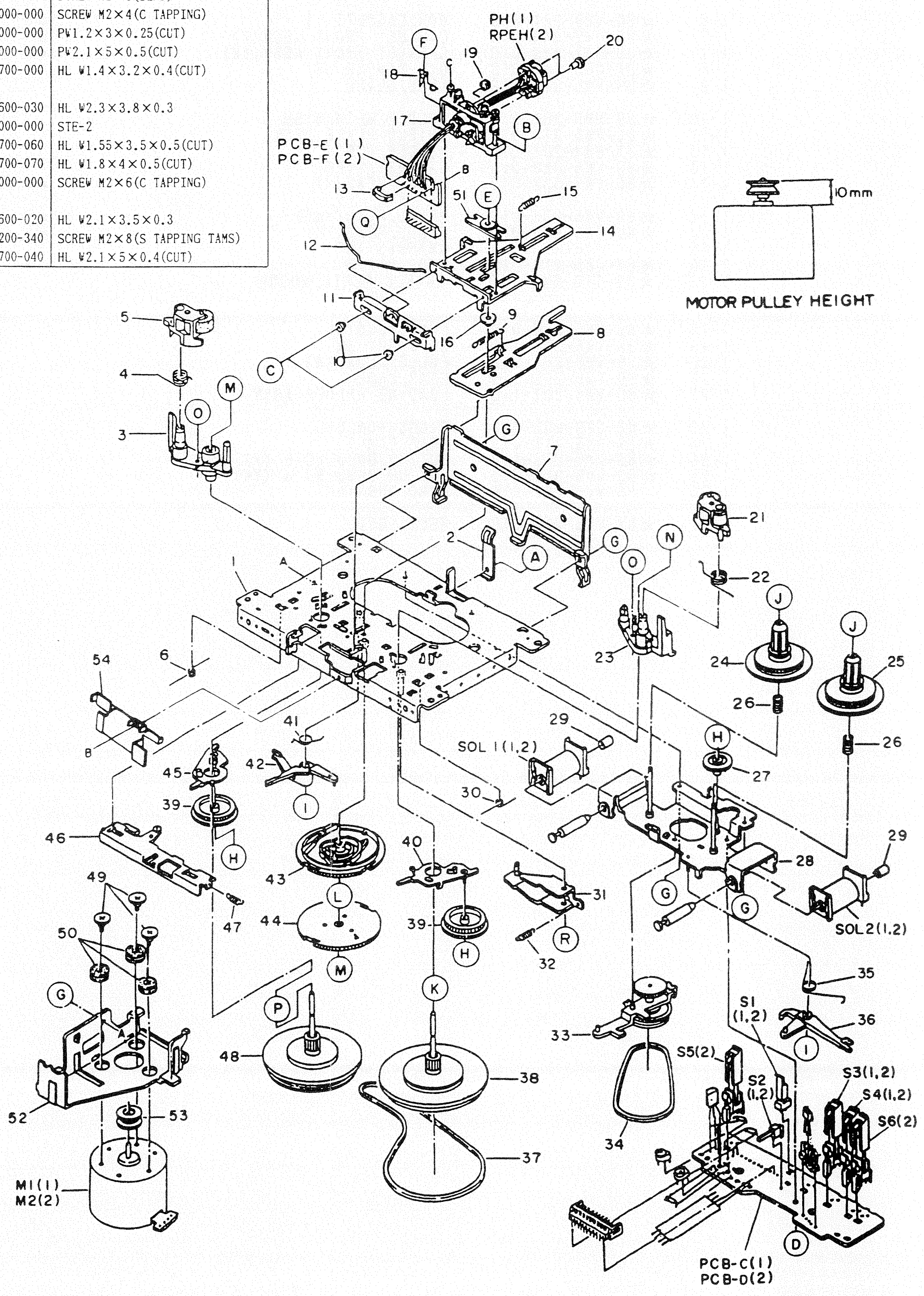


MECHANICAL PARTS LIST (FX — WZ959／WZ95)

PART NO. CHANGED TO	REF. NO.	PART NO.	DESCRIPTION	COMMON MODEL	Q, TY
	1-1	★80-VW5-022-019	BOX, CASSETTE 2	*	1
	1-2	★82-202-217-110	P-SPRING, CASSETTE HOLDER		4
	1-3	★89-VW5-203-010	T-SPRING, EJECT 2		1
	1-4	★80-VW5-015-019	WINDOW, 1	*	2
	1-5	★89-VW5-202-010	T-SPRING, EJECT 1		1
	1-6	★80-VW5-021-019	BOX, CASSETTE 1	*	1
	1-7	★09-047-648-010	CABINET FRONT ASSY(Y)	*	1
	1-7	★09-047-649-010	CABINET FRONT ASSY(YK)	*	1
	1-8	★87-063-144-010	OIL-DAMPER 37		2
	1-9	★89-VW5-011-019	KNOB, SLIDE		3
	1-10	★89-VW5-201-010	HOLDER, MECHANISM		2
	1-11	★89-VW5-214-019	SHIELD PLATE, DECK		2
	1-12	★81-664-202-010	HOLDER, PCB		3
	1-13	★89-VW5-018-010	CABINET, STEEL		1
	1-14	★80-VW5-032-010	PANEL, REAR(Y)	*	1
	1-14	★80-VW5-038-010	PANEL, REAR(YNE)	*	1
	1-14	★80-VW5-034-010	PANEL, REAR(YK)	*	1
	1-15	---	CHASSIS, AMP		1
	1-16	★87-085-213-019	FOOT, H12.5		2
	1-17	★82-110-647-010	SHIELD PLATE, MOTOR		2
	1-18	★89-VW5-206-019	PULLEY, MOTOR		2
	1-19	★89-VW5-216-010	BELT, SQ1.5M		2
	1-20	★89-VW5-204-119	PULLEY, LOADING		2
	1-21	★89-VM5-205-119	GEAR, CAM2		1
	1-22	★89-VW5-207-110	LOADING HOLDER ASSY		1
	1-23	★82-679-233-010	G-CUSHION, 5-5		1
	1-24	★89-VW5-211-019	GEAR, CAM 1		1
	1-25	★89-VW5-019-119	BUTTON, DUBBING 5 (Y)		1
	1-25	★89-VW5-010-019	BUTTON, DUBBING 4 (YK)		1
	1-26	89-VT5-202-010	CORD, BUSHING		1
	1-27	★89-VW5-212-010	FELT, FOOT		2

EXPLODED VIEW－2 (FX－WZ959／WZ95)

REF.NO.	PART NO.	DESCRIPTION
A	S9-178-000-000	SPECIAL SCREW M2×3(C TAPPING)
B	S9-078-000-000	SCREW M2×5(TAMS)
C	S9-547-000-000	SCREW M1.7×3(CAMERA)
D	S9-999-200-200	SCREW M2×5(S TAPPING TAMS)
E	S9-999-180-160	SPECIAL SCREW M2×5
F	S9-117-000-000	SCREW M2×5(BIND)
G	S9-180-000-000	SCREW M2×4(C TAPPING)
H	S9-421-000-000	PW1.2×3×0.25(CUT)
I	S9-876-000-000	PW2.1×5×0.5(CUT)
J	S9-999-700-000	HL W1.4×3.2×0.4(CUT)
K	S9-999-600-030	HL W2.3×3.8×0.3
L	S9-502-000-000	STE-2
M	S9-999-700-060	HL W1.55×3.5×0.5(CUT)
N	S9-999-700-070	HL W1.8×4×0.5(CUT)
O	S9-182-000-000	SCREW M2×6(C TAPPING)
P	S9-999-600-020	HL W2.1×3.5×0.3
Q	S9-999-200-340	SCREW M2×8(S TAPPING TAMS)
R	S9-999-700-040	HL W2.1×5×0.4(CUT)


PH(1)
RPEH(2)
20
19
F
18
17
B
PCB-E(1)
PCB-F(2)
B
13
51
E
15
Q
14
12
11
9
16
8
C
5
4
M
O
3
G
7
10mm
MOTOR PULLEY HEIGHT
21
2
A
1
A
G
N
O
22
J
J
54
6
23
24
25
26
41
29
SOL1(1,2)
B
45
42
H
26
27
39
I
30
46
H
40
29
28
43
49
L
31
G
G
SOL2(1,2)
50
47
44
39
R
H
32
M
G
K
35
P
S1
(1,2)
36
33
A
S5(2)
I
48
38
S2
(1,2)
S3(1,2)
S4(1,2)
52
53
S6(2)
37
34
M1(1)
M2(2)
D
PCB-C(1)
PCB-D(2)

PART NO. CHANGED TO	REF. NO.	PART NO.	DESCRIPTION	COMMON MODEL	Q, TY
	2-1	---	CHASSIS ASSY		1
	2-2	★S1-829-100-010	SPRING, PACK		1
	2-3	★S1-880-090-090	FL METAL ASSY		1
	2-4	★S1-880-040-040	P-SPRING, ARM R		1
	2-5	S1-880-043-020	PINCH ROLLER R ASSY		1
	2-6	★S1-880-050-190	T-SPRING, TRIGGER ARM R		1
	2-7	★S1-880-530-020	PROTECTOR, SWITCH		1
	2-8	★S1-880-025-010	HEAD PANEL ASSY B		1
	2-9	★S1-880-020-050	SPRING, PANEL		1
	2-10	★S1-865-020-280	COLLAR, CHIP LEVER		2
	2-11	★S1-880-020-060	LEVER, CHIP		1
	2-12	★S1-880-040-050	SPRING, PINCH ROLLER		1
	2-13	---	CLAMP, WIRE		1
	2-14	★S1-880-020-010	PANEL, HEAD A		1
	2-15	★S1-880-020-040	SPRING, RC		1
	2-16	★S1-880-020-190	COLLAR, PANEL A		1
	2-17	★S1-865-023-060	HEAD BASE ASSY		1
	2-18	★S1-865-020-600	SPRING, CLAMP		1
	2-19	★S1-865-090-610	SPACER		1
	2-20	★S9-999-180-170	SCREW, HEAD COLLAR C		2
	2-21	S1-880-043-010	ARM PINCH ROLLER F ASSY		1
	2-22	★S1-880-040-030	P-SPRING, ARM F		1
	2-23	★S1-880-090-080	FL METAL ASSY		1
	2-24	S1-880-053-140	T REEL R ASSY		1
	2-25	S1-880-053-130	T REEL F ASSY		1
	2-26	★S1-880-050-220	SPRING, BACK TENSION R		2
	2-27	★S1-880-050-080	GEAR, FF		1
	2-28	★S1-880-055-010	REEL BASE ASSY		1
	2-29	★S1-880-210-060	HOLDER, PLUNGER		2
	2-30	★S1-880-050-180	SPRING, TRIGGER ARM F		1
	2-31	★S1-880-215-020	LEVER P KICK ASSY		1
	2-32	★S1-880-210-110	P-SPRING, P KICK LEVER		1
	2-33	★S1-880-073-020	CLUCH RF ASSY		1
	2-34	S1-880-070-080	BELT, RF		1
	2-35	★S1-880-050-170	SPRING, FR TRIGGER ARM		1
	2-36	★S1-880-050-150	ARM, RF TRIGGER		1
	2-37	S1-880-090-380	BELT, MAIN		1
	2-38	S1-880-093-070	FLYWHEEL F ASSY		1
	2-39	★S1-880-050-350	GEAR, T		2
	2-40	★S1-880-055-020	GEAR T F ASSY		1
	2-41	★S1-880-010-060	SPRING, M TRIGGER ARM		1
	2-42	★S1-880-210-030	ARM, M TRIGGER		1
	2-43	★S1-880-210-150	GEAR, M		1
	2-44	★S1-880-210-160	GEAR, RF CAM		1
	2-45	★S1-880-055-030	GEAR T ARM R ASSY		1
	2-46	★S1-880-215-010	LEVER CH SLIDE ASSY		1
	2-47	★S1-880-210-080	C-SPRING, SLIDE LEVER		1
	2-48	S1-880-093-080	FLYWHEEL R ASSY		1
	2-49	★S1-851-140-180	SCREW, MOTOR COLLAR		3
	2-50	★S1-821-120-660	RUBBER, MOTOR		3
	2-51	★S1-880-020-160	PANEL, SPRING PLATE		1
	2-52	★S1-880-090-110	BRACKET, MOTOR		1
	2-53	★S1-880-090-370	PULLEY, MOTOR A		1
	2-54	★S1-880-020-180	PLATE, SHIELD		1

MODEL NO.

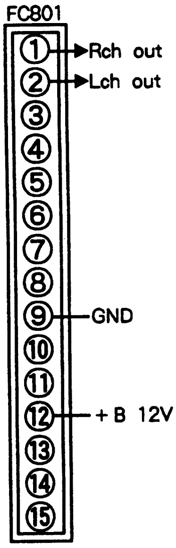
TX – Z95

CAUTIONS WHEN SERVICING (TX – Z95)

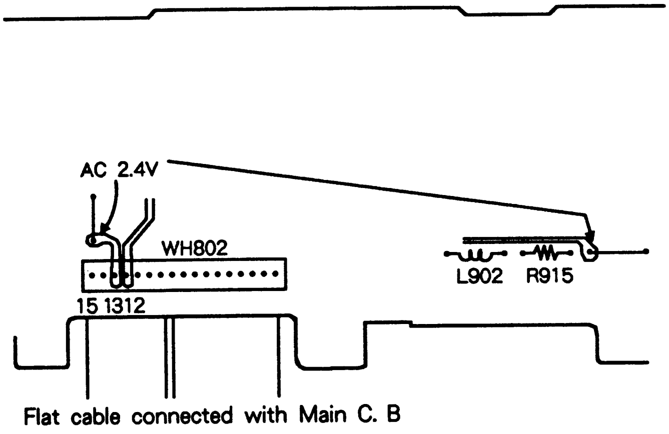
Model TX – Z95 does not have a power supply circuit. Power is supplied to it through a 15 – pin flat cable and the signal inputs/outputs are also performed through this cable.
When servicing the TX – Z95 connect it to the MX – Z95M so that power is supplied to the TX – Z95. If the MX – Z95M is not available, follow the procedure below.

[When servicing the unassembled TX – Z95]

①Supply the following voltages to each FC801 terminal from an external power supply.


FC801
①
②
③
④
⑤
⑥
⑦
⑧
⑨
⑩
⑪
⑫
⑬
⑭
⑮
Rch out
Lch out
GND
+ B 12V

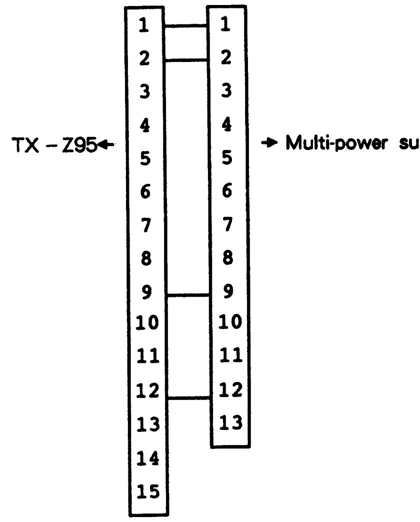
B FRONT C.B


AC 2.4V
WH802
15 1312
L902
R915
Flat cable connected with Main C. B

②Connection diagram when using multi power supply (LPS-9088).

1. Apply AC 2.4V to the section shown by arrows in the above diagram from a multi-power supply. (The display becomes dim because it is lower than the rated voltage.)
2. Turn the TX-Z95 on using the SLEEP function since the POWER ON signal is not supplied.

Connect the multi-conversion harness for the F550 type to J1.


TX – Z95
Multi-power supply
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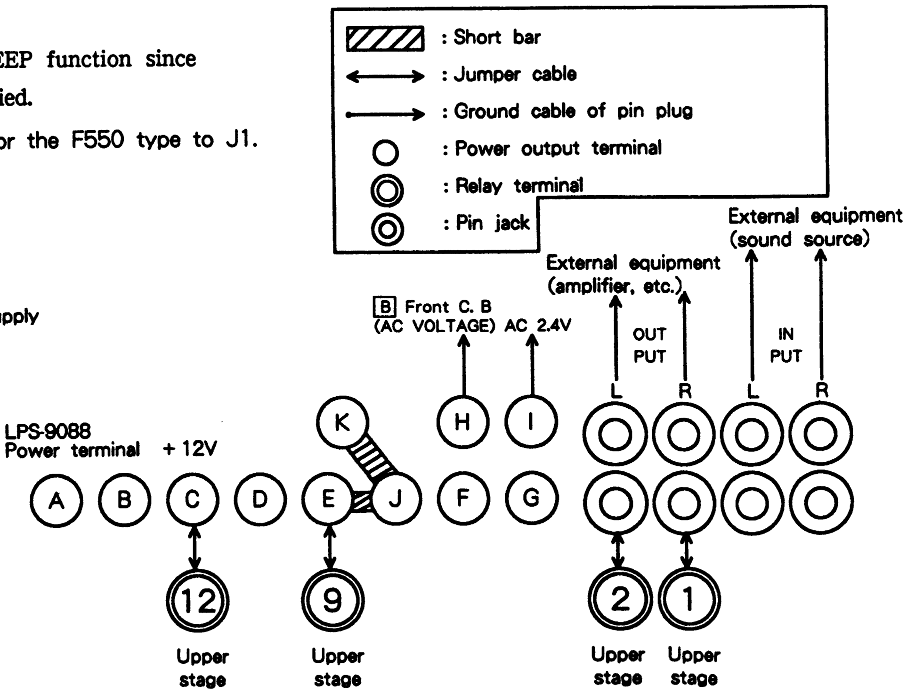
14
15


▨ : Short bar
⟷ : Jumper cable
⟶ : Ground cable of pin plug
○ : Power output terminal
◎ : Relay terminal
◎ : Pin jack
External equipment (sound source)
External equipment (amplifier, etc.)
B Front C. B (AC VOLTAGE)
AC 2.4V
OUT PUT
IN PUT
L
R
L
R
LPS-9088 Power terminal
+ 12V
K
H
I
A
B
C
D
E
J
F
G
12
9
2
1
Upper stage
Upper stage
Upper stage
Upper stage

Connection diagram of multi-conversion harness

ELECTRICAL MAIN PARTS LIST (TX－Z95)

REF. NO.	PART NO.	DESCRIPTION
=== IC ===		
	87-001-533-010	IC, GP1U501X1(REMOTE SENSOR)
	87-001-942-019	IC, LA1265G
	87-001-376-019	IC, LC7218
	87-020-446-019	IC, TA7343AP
	87-001-727-010	IC, UPD75206CW-115
=== TRANSISTOR ===		
	87-026-165-019	FET, 3SK73GR(Z)
	89-501-615-019	FET, 2SK161GR
	89-502-415-019	FET, 2SK241GR
	89-502-464-019	FET, 2SK246Y
	89-110-155-019	TRANSISTOR, 2SA1015GR
	89-318-154-019	TRANSISTOR, 2SC1815Y
	89-318-155-019	TRANSISTOR, 2SC1815GR
	89-319-233-019	TRANSISTOR, 2SC1923(O)
	89-320-011-019	TRANSISTOR, 2SC2001K
	87-026-214-019	TRANSISTOR, DTA114YS
	87-026-215-019	TRANSISTOR, DTC114YS
=== DIODE ===		
	87-001-559-019	DIODE, 1SS131
	87-020-465-019	DIODE, 1SS133
	87-027-449-019	ZENER, HZ15-3L
	87-027-349-019	ZENER, HZ6A1L
	87-027-702-019	ZENER, HZ6C2L
=== NAIN CIRCUIT BOARD SECTION ===		
AT801	81-760-694-010	ANTENNA TERMINAL 4P(ANTENNA)(H)
AT801	★81-631-646-019	ANTENNA TERMINAL 2P PAL(ANTENNA)
C1	★87-018-103-019	CAP, CERA U 8.2P-50 SL(H, E, K)
C2	★87-018-134-019	CAP, CERA U 0.01-16 Y
C3	★87-018-102-019	CAP, CERA U 6.8P-50 SL(H, E, K)
C4	★87-018-102-019	CAP, CERA U 6.8P-50 SL(H, E, K)
C5	★87-018-098-019	CAP, CERA U 3.3P-50 SL(H, E, K)
C5	★87-018-097-019	CAP, CERA U 2.2P-50 SL(Z)
C6	★87-018-100-019	CAP, CERA U 4.7P-50 SL(H, E, K)
C6	★87-018-106-019	CAP, CERA U 15P-50 SL(Z)
C7	★87-018-096-019	CAP, CERA U 1P-50 SL
C8	★87-018-119-019	CAP, CERA U 100P-50 B
C9	★87-018-134-019	CAP, CERA U 0.01-16 Y
C10	★87-018-116-019	CAP, CERA U 56P-50 SL
C11	★87-018-107-019	CAP, CERA U 18P-50 SL
C12	★87-018-134-019	CAP, CERA U 0.01-16 Y
C13	★87-018-134-019	CAP, CERA U 0.01-16 Y
C14	★87-010-401-019	CAP, ELECT 1-50V SME
C16	★87-018-100-019	CAP, CERA U 4.7P-50 SL(E, K)
C20	★87-018-100-019	CAP, CERA U 4.7P-50 SL(Z)
C21	★87-018-105-019	CAP, CERA U 12P-50 SL(Z)
C22	★87-018-134-019	CAP, CERA U 0.01-16Y(Z)
C23	★87-018-105-019	CAP, CERA U 12P-50 SL(Z)
C24	★87-018-105-019	CAP, CERA U 12P-50 SL(Z)
C50	★87-018-134-019	CAP, CERA U 0.01-16 Y
C51	★87-018-134-019	CAP, CERA U 0.01-16 Y
C54	★87-018-134-019	CAP, CERA U 0.01-16 Y
C121	★87-018-134-019	CAP, CERA U 0.01-16 Y
C122	★87-010-374-019	CAP, ELECT 47-10V
C123	★87-018-134-019	CAP, CERA U 0.01-16 Y
C201	★87-010-544-019	CAP, ELECT 0.1-50V
C202	★87-014-049-019	CAP, PP 470P-100 J(E, K, Z)
C202	★87-014-050-019	CAP, PP 510P-100J(H)
C203	★87-018-110-019	CAP, CERA U 24P-50 SL(H)
C205	★87-018-110-019	CAP, CERA U 24P-50 SL(E, K, Z)
C206	★87-018-121-019	CAP, CERA U 150P(E, K, Z)
C207	★87-014-050-019	CAP, PP 510P-100J(E, K, Z)
C208	★87-018-134-019	CAP, CERA U 0.01-16Y(E, K, Z)
C209	★87-010-405-019	CAP, ELECT 10-50 SME(E, K, Z)
C301	★87-018-134-019	CAP, CERA U 0.01-16 Y
C302	★87-018-134-019	CAP, CERA U 0.01-16 Y
C303	★87-010-382-019	CAP, ELECT 22-25V SME
C304	★87-018-125-019	CAP, CERA U 330P-50 B
C305	★87-010-402-019	CAP, ELECT 2.2-50V SME
C306	★87-010-402-019	CAP, ELECT 2.2-50V SME
C307	★87-010-403-019	CAP, ELECT 3.3-50V SME
C308	★87-010-405-019	CAP, ELECT 10-50 SME
C309	★87-010-544-019	CAP, ELECT 0.1-50V
C311	★87-010-404-019	CAP, ELECT 4.7-50V SME
C313	★87-018-134-019	CAP, CERA U 0.01-16 Y
C314	★87-018-134-019	CAP, CERA U 0.01-16 Y
C316	★87-010-401-019	CAP, ELECT 1-50V SME
C317	★87-010-401-019	CAP, ELECT 1-50V SME
C318	★87-018-134-019	CAP, CERA U 0.01-16 Y
C319	★87-018-134-019	CAP, CERA U 0.01-16 Y
C320	★87-018-134-019	CAP, CERA U 0.01-16 Y(H, E, K)
C321	★87-010-402-089	CAP, ELECT 2.2-50(Z)
C322	★87-010-402-089	CAP, ELECT 2.2-50(Z)
C401	★87-010-401-019	CAP, ELECT 1-50V SME
C402	★87-010-403-019	CAP, ELECT 3.3-50V SME
C403	★87-010-248-019	CAP, ELECT 220-10V SME
C404	★87-014-057-019	CAP, PP 1000P-100 J
C405	★87-010-405-019	CAP, ELECT 10-50 SME
C409	★87-010-402-019	CAP, ELECT 2.2-50V SME
C410	★87-010-402-019	CAP, ELECT 2.2-50V SME
C411	★87-018-119-019	CAP, CERA U 100P-50(H)
C505	★87-010-402-019	CAP, ELECT 2.2-50V SME
C506	★87-010-402-019	CAP, ELECT 2.2-50V SME
C512	★87-010-401-019	CAP, ELECT 1-50V SME
C602	★87-010-381-019	CAP, ELECT 330-16V SME
C603	★87-010-263-019	CAP, ELECT 100-10V
C604	★87-010-221-019	CAP, ELECT 470-10V
C605	★87-010-405-019	CAP, ELECT 10-50 SME
C606	★87-010-263-019	CAP, ELECT 100-10V
C607	★87-010-247-019	CAP, ELECT 100-50V SME
C701	★87-018-134-019	CAP, CERA U 0.01-16 Y
C702	★87-010-263-019	CAP, ELECT 100-10V
C703	★87-018-134-019	CAP, CERA U 0.01-16 Y
C704	★87-018-134-019	CAP, CERA U 0.01-16 Y
C706	★87-018-106-019	CAP, CERA U 15P-50 SL
C707	★87-010-101-019	CAP, ELECT 220-16V SME
C708	★87-010-545-019	CAP, ELECT 0.22-50V SME
C709	★87-018-134-019	CAP, CERA U 0.01-16 Y
C710	★87-010-404-019	CAP, ELECT 4.7-50V SME
C712	★87-018-134-019	CAP, CERA U 0.01-16 Y
C713	★87-018-134-019	CAP, CERA U 0.01-16 Y
C715	★87-010-401-019	CAP, ELECT 1-50V SME(E, K, Z)
C717	★87-018-134-019	CAP, CERA U 0.01-16 Y(E, K)
C718	★87-010-101-019	CAP, ELECT 220-16V SME
C801	★87-018-134-019	CAP, CERA U 0.01-16 Y
C803	★87-018-134-019	CAP, CERA U 0.01-16Y
C806	★87-018-134-089	CAP, CERA 0.01-16 Y
C811	★87-018-134-019	CAP, CERA U 0.01-16 Y(Z)
CF121	★87-008-261-019	FILTER, SFE 10.7MA5-A(H, E, K)
CF121	★82-799-621-019	FILTER, MS2-A(Z)
CF122	★87-008-261-019	FILTER, SFE 10.7MA5-A(H, E, K)
CF123	★87-008-261-019	FILTER, SFE10.7 MA-5-A(Z)
CF301	★82-794-670-019	FILTER, BFU 450C4N
CF801	89-VT5-618-110	CORD, FG 15P(AMP)

REF. NO.	PART NO.	DESCRIPTION
CON801	87-009-065-019	CONNECTOR 15P FG(DECK)
CON803	87-754-629-019	CONNECTOR XH M 2P(AM LOOP)(E,K)
D1	87-027-900-019	VARI-CAP,1SV147
D2	87-027-900-019	VARI-CAP,1SV147
D3	87-027-900-019	VARI-CAP,1SV147
D21	87-027-900-019	VARI-CAP,1SV147(Z)
D201	81-754-634-019	VARI-CAP,KV1260
FIL1	87-030-105-010	FILTER,BPMB6A(Z)
L1	★87-006-198-019	COIL,ANT 2-3/4 TS L5
L2	★87-006-199-019	COIL,ANT 3/4 T L5
L3	★87-006-200-019	COIL,RF FM 3-1/2 T L5
L4	★87-006-201-019	COIL,RF FM 3-1/2 T L5
L5	★82-794-683-019	IFT,FM 6T
L6	★87-007-259-019	COIL,FM OSC (7K)N
L7	★87-003-098-019	COIL,2.2UH
L21	★87-006-202-019	COIL,RF FM4TSR,L5(Z)
L201	★87-006-182-019	COIL,AM ANT 2B(H)
L201	★87-006-190-019	COIL,MW ANT 3B(E,K,Z)
L202	★87-006-177-019	COIL,LW ANT(E,K,Z)
L203	★82-794-687-019	COIL,MW(AM) OSC
L204	★82-794-688-019	COIL,LW OSC(E,K,Z)
L301	★81-631-611-019	COIL,QUAD (SINGLE)
L302	87-008-452-019	FILTER,CERAMIC CFAZ-450
L303	★87-003-098-019	COIL,2.2UH
L321	★82-794-697-019	FILTER,ANTI BIRDIE(Z)
L501	★87-008-253-019	FILTER,LPF
L601	★87-003-136-019	COIL,100UH
L701	★87-003-098-019	COIL,2.2UH
PT601	89-VT5-624-019	POWER TRANSFORMER FL
SFR301	★87-024-174-019	SFR,33K
SFR401	★87-024-171-019	SFR,4.7K
SW801	82-795-624-019	SLIDE SW(AM STEP)(H)
TC1	★87-011-219-019	CAP,TRIMMER 10P VCT
TC2	★87-011-219-019	CAP,TRIMMER 10P VCT
TC21	★87-011-219-019	CAP,TRIMMER 10P(Z)
TC201	★87-011-221-019	CAP,TRIMMER 30P VC51(H)
TC211	★87-011-220-019	CAP,TRIMMER 20P(E,K,Z)
TC212	★87-011-221-019	CAP,TRIMMER 30P(E,K,Z)
TC701	★87-011-221-019	CAP,TRIMMER 30P VC51
X701	★87-030-163-019	RESONATOR,CRYSTAL 7.2MHZ(NDK)

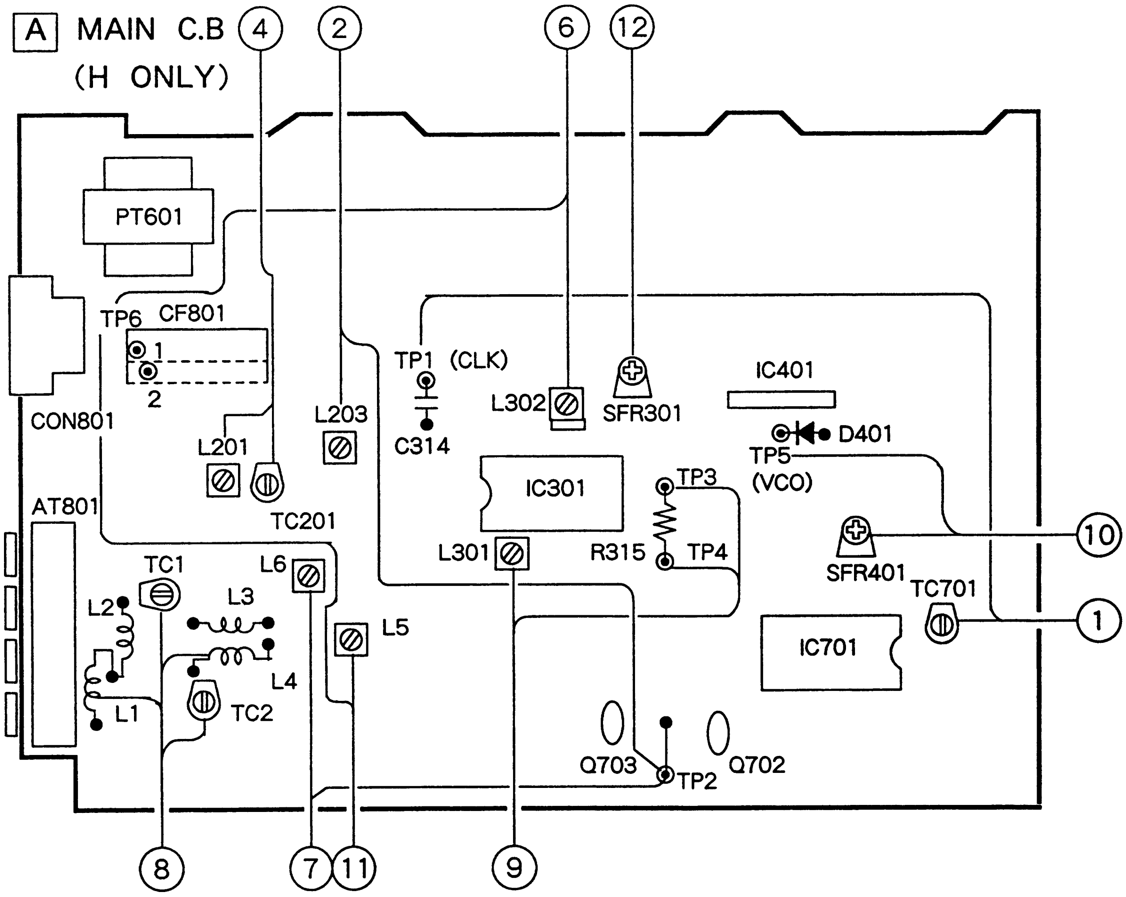
=== FRONT CIRCUIT BOARD SECTION ===

REF. NO.	PART NO.	DESCRIPTION
C812	★87-018-119-019	CAP,CERA U 100P-50B(E,K,Z)
C901	★87-018-131-019	CAP,CERA U 1000P-50 B
C902	★87-018-134-019	CAP,CERA U 0.01-16 Y
C903	★87-018-134-019	CAP,CERA U 0.01-16 Y
C905	★87-018-134-019	CAP,CERA U 0.01-16 Y
C906	★87-018-134-019	CAP,CERA U 0.01-16 Y
C907	★87-018-131-019	CAP,CERA U 1000P-50 B
C908	★87-010-405-019	CAP,ELECT 10-50 SME
C909	★87-018-134-019	CAP,CERA U 0.01-16 Y
C910	★87-010-252-019	CAP,ELECT 1000-6.3V
C911	★87-010-071-019	CAP,ELECT 1-50V
C912	★87-010-071-019	CAP,ELECT 1-50V
C913	★87-010-374-019	CAP,ELECT 47-10V
C914	★87-010-401-019	CAP,ELECT 1-50V SME
C915	★87-010-415-089	CAP,ELECT 10-50 SRE
CF901	★87-008-394-019	FILTER,CERAMIC CST 4.19 MGW
FL901	★81-690-620-010	FL,9BT-44GK(DISPLAY)
L901	★87-003-102-019	COIL,10UH
L902	★87-003-102-019	COIL,10UH
L905	★87-003-102-019	COIL,10UH
L906	★87-003-102-019	COIL,10UH
SW1	87-036-142-019	TACT SW(STATION PRESET1)

REF. NO.	PART NO.	DESCRIPTION
SW2	87-036-142-019	TACT SW(STATION PRESET2)
SW3	87-036-142-019	TACT SW(STATION PRESET3)
SW4	87-036-142-019	TACT SW(STATION PRESET4)
SW5	87-036-142-019	TACT SW(STATION PRESET5)
SW6	87-036-142-019	TACT SW(STATION PRESET6)
SW7	87-036-142-019	TACT SW(STATION PRESET7)
SW8	87-036-142-019	TACT SW(STATION PRESET8)
SW9	87-036-142-019	TACT SW(STATION PRESET9)
SW10	87-036-142-019	TACT SW(STATION PRESET10)
SW11	87-036-142-019	TACT SW(BAND)
SW12	87-036-142-019	TACT SW(TUNING/TIMER UP)
SW13	87-036-142-019	TACT SW(TUNING/TIMER DOWN)
SW14	87-036-142-019	TACT SW(SET/MEMO)
SW15	87-036-142-019	TACT SW(MODE)
SW16	87-036-142-019	TACT SW(DISPLAY)
SW17	87-036-142-019	TACT SW(SLEEP)
SW18	87-036-142-019	TACT SW(TIMER/STANDBY)

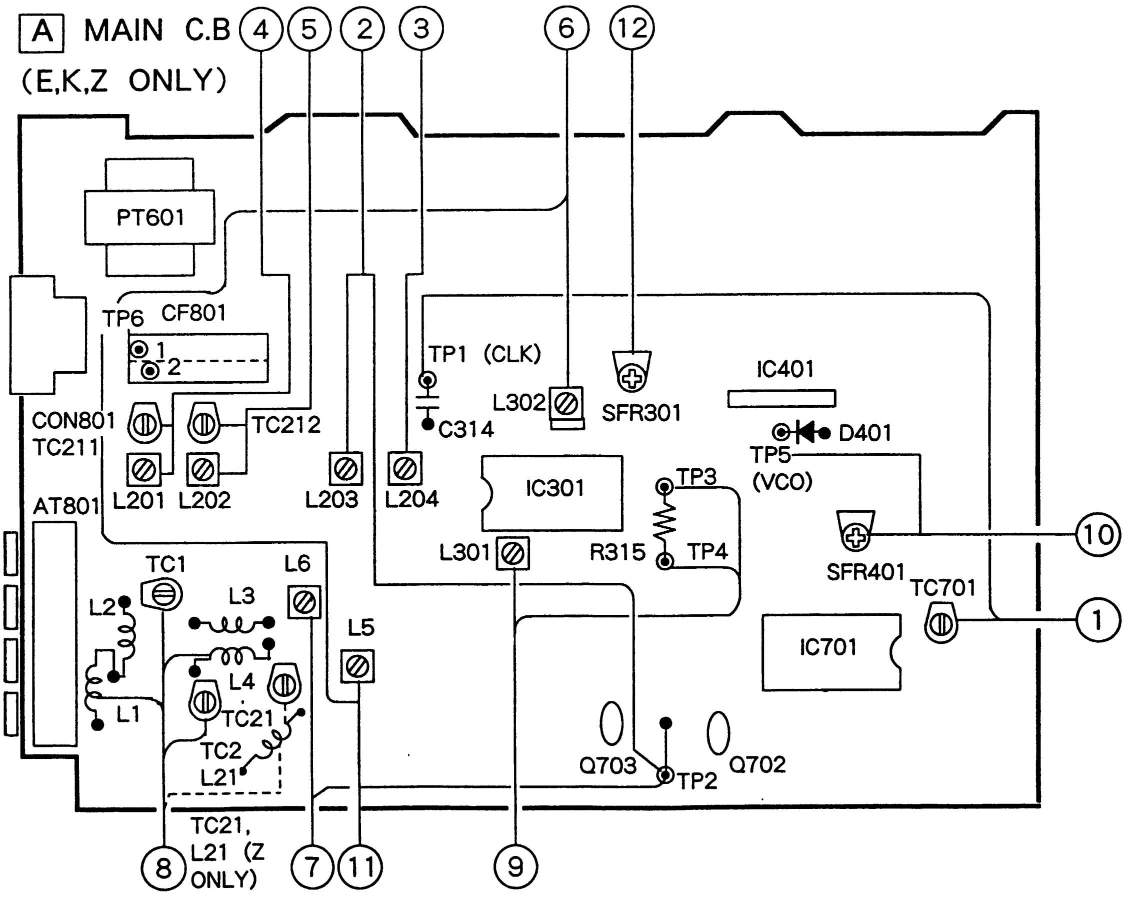
ADJUSTMENT (TX－Z95)

A MAIN C.B
(H ONLY)



④
②
⑥
⑫
PT601
TP6
CF801
1
2
CON801
L201
L203
TC201
TP1 (CLK)
C314
L302
SFR301
IC401
D401
TP5
(VCO)
IC301
TP3
R315
TP4
L301
SFR401
TC701
⑩
①
IC701
AT801
TC1
L6
L2
L3
L5
L4
L1
TC2
Q703
TP2
Q702
⑧
⑦
⑪
⑨

A MAIN C.B
(E,K,Z ONLY)



④
⑤
②
③
⑥
⑫
PT601
TP6
CF801
1
2
CON801
TC211
TC212
L201
L202
L203
L204
TP1 (CLK)
C314
L302
SFR301
IC401
D401
TP5
(VCO)
IC301
TP3
R315
TP4
L301
SFR401
TC701
⑩
①
IC701
AT801
TC1
L6
L2
L3
L5
L4
L1
TC21
TC2
L21
Q703
TP2
Q702
TC21,
L21 (Z
ONLY)
⑧
⑦
⑪
⑨

1. Clock Frequency Adjustment

Settings : • Test point : TP1
• Adjustment location : TC701
Method : Set to AM (MW) 1602kHz (H), 1611kHz (E,K,Z) and adjust so that the test point becomes 2052kHz ± 0.01kHz (H), 2061kHz ± 0.01kHz (E,K,Z).

2. AM (MW) VT Adjustment

Settings : • Test point : TP2
• Adjustment location : L203
Method : Set to AM (MW) 531kHz (H), 522kHz (E,K,Z) and adjust so that the test point becomes 1.1V ± 0.05V (H), 0.9V ± 0.05V (E,K,Z).

3. LW VT Adjustment (E,K,Z only)

Settings : • Test point : TP2
• Adjustment location : L204
Method : Set to LW 144kHz and adjust so that the test point becomes 1.5V ± 0.05V.

4. AM (MW) Tracking Adjustment

Settings : • Test point : TP6
L201 .... 603kHz
TC201 (H), TC211 (E,K,Z) 1404kHz
Mehod : Output level become maximum.

5. LW Tracking Adjustment (E,K,Z only)

Settings : • Test point : TP6
L202 .... 144kHz
TC212 .... 290kHz
Method : Output level become maximum.

6. AM IF Adjustment

Settings : • Test point : TP6
L302 .... 450kHz

7. FM VT Adjustment

Settings : • Test point : TP2
• Adjustment location : L6
Method : Set to FM 87.5MHz and adjust L6 so that TP2 becomes 3.0V ± 0.05V.

8. FM Tracking Adjustment

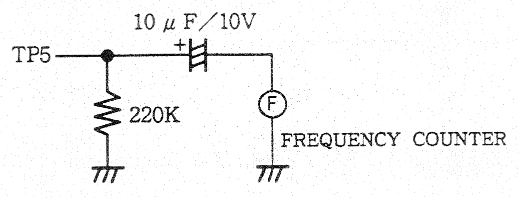
Settings : • Test point : TP6
L1, L4 (H,E,K)
L1, L4, L21 (Z) 87.5MHz
TC1, TC2 (H,E,K)
TC1, TC2, TC21 (Z) 108MHz
Mehod : Output level become maximum. Confirm at 98.0MHz, distortion less than 3%.

9. DC Balance Adjustment

Settings : • Test point : TP3, TP4 (DC balance)
• Adjustment location : L301
Method : Set to FM 98.0MHz and adjust L301 so that TP3 and TP4 becomes 0V ± 0.02V.

10. MPX VCO Adjustment

Settings : • Test point : TP5
• MODE SW : STEREO
• Adjustment location : SFR401
Method : Connect a capacitor and a resistor as below. Set to FM 98.0MHz non modulation and adjust so that the frequency at test point becomes 38kHz ± 0.05kHz.



11. FM IF Adjustment

Settings : • Test point : TP6
L5 .... 10.7MHz

12. Tuning Indicator Lighting Level Adjustment

Settings : • Adjustment location : SFR301
Method : Apply an FM 98.0MHz, 18dB signal and adjust so that the "TUNE" indicator lights. Lower the input level by 2dB and check that the "TUNE" indicator goes out.

PRACTICAL SERVICE FIGURE (TX－Z95)

< FM SECTION >

Usable Sensitivity : (THD 3%)	H,E,K MODELS 4 ± 5dB (at 87.5, 98.0, 108.0MHz) Z MODEL 8 ± 5dB (at 87.5MHz) 7 ± 5dB (at 98.0MHz) 7 ± 5dB (at 108.0MHz)
S/N 50dB Quieting Sensitivity :	H,E,K MODELS 28 ± 6dB (at 87.5, 90.0, 108.0MHz) Z MODEL 32 ± 6dB (at 87.5, 90.0, 108.0MHz)
Signal to Noise Ratio :	(MONO.) H,E,K MODELS More than 68dB (at 98.0MHz) Z MODEL More than 65dB (at 98.0MHz) (STEREO) H,E,K MODELS More than 62dB (at 98.0MHz) Z MODEL More than 58dB (at 98.0MHz)
Total Harmonic Distortion :	(MONO.) Less than 0.8% (at 98.0MHz) (STEREO) Less than 1.0% (at 98.0MHz)
Stereo Separation :	More than 25dB
Intermediate Frequency :	10.7MHz

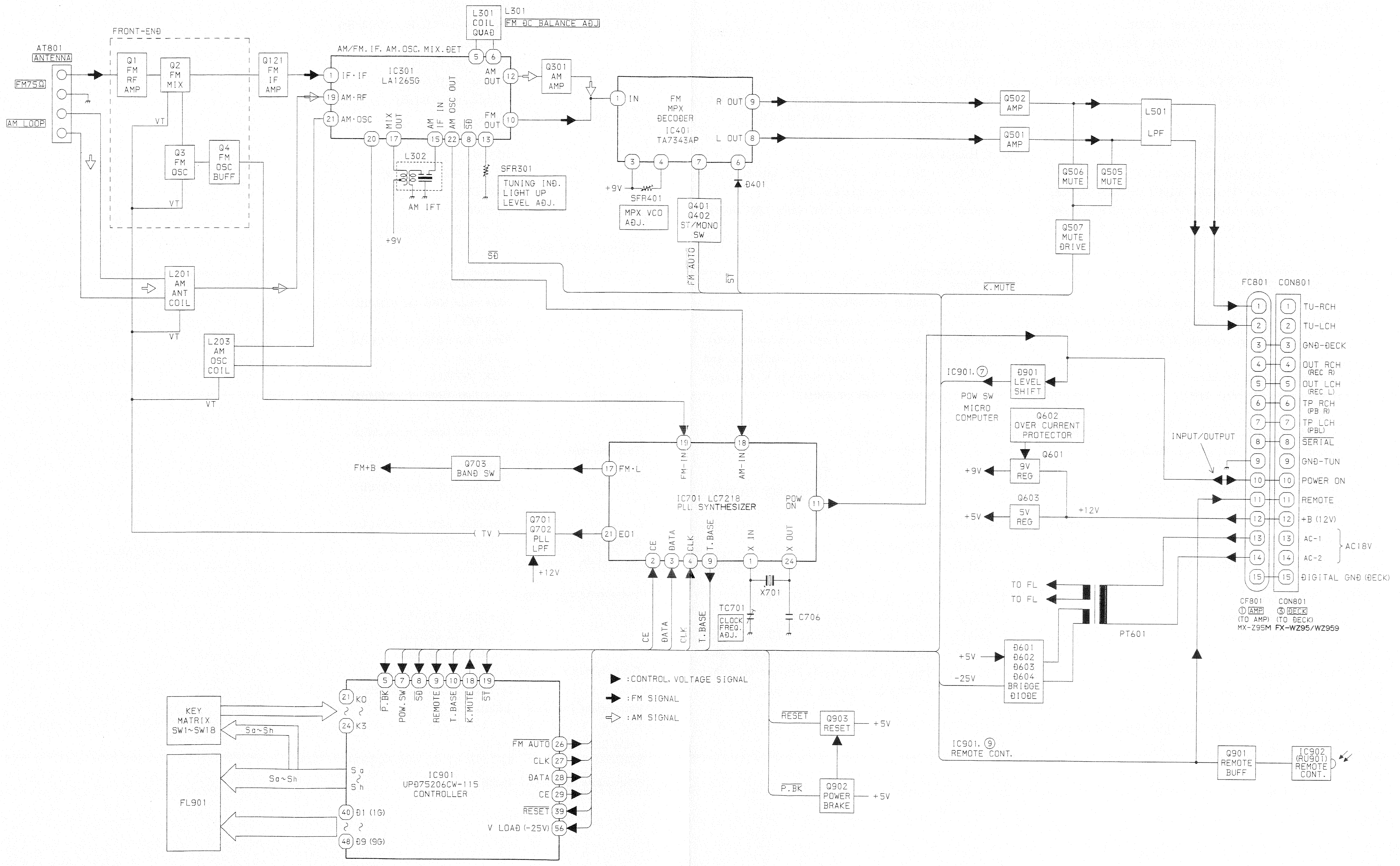
< AM (MW) SECTION >

Sensitivity :	57 ± 3dB (at 603kHz) 54 ± 4dB (at 999kHz) 53 ± 4dB (at 1404kHz)
Total Harmonic Distortion :	Less than 2.0% (at 999kHz)
Intermediate Frequency :	450kHz

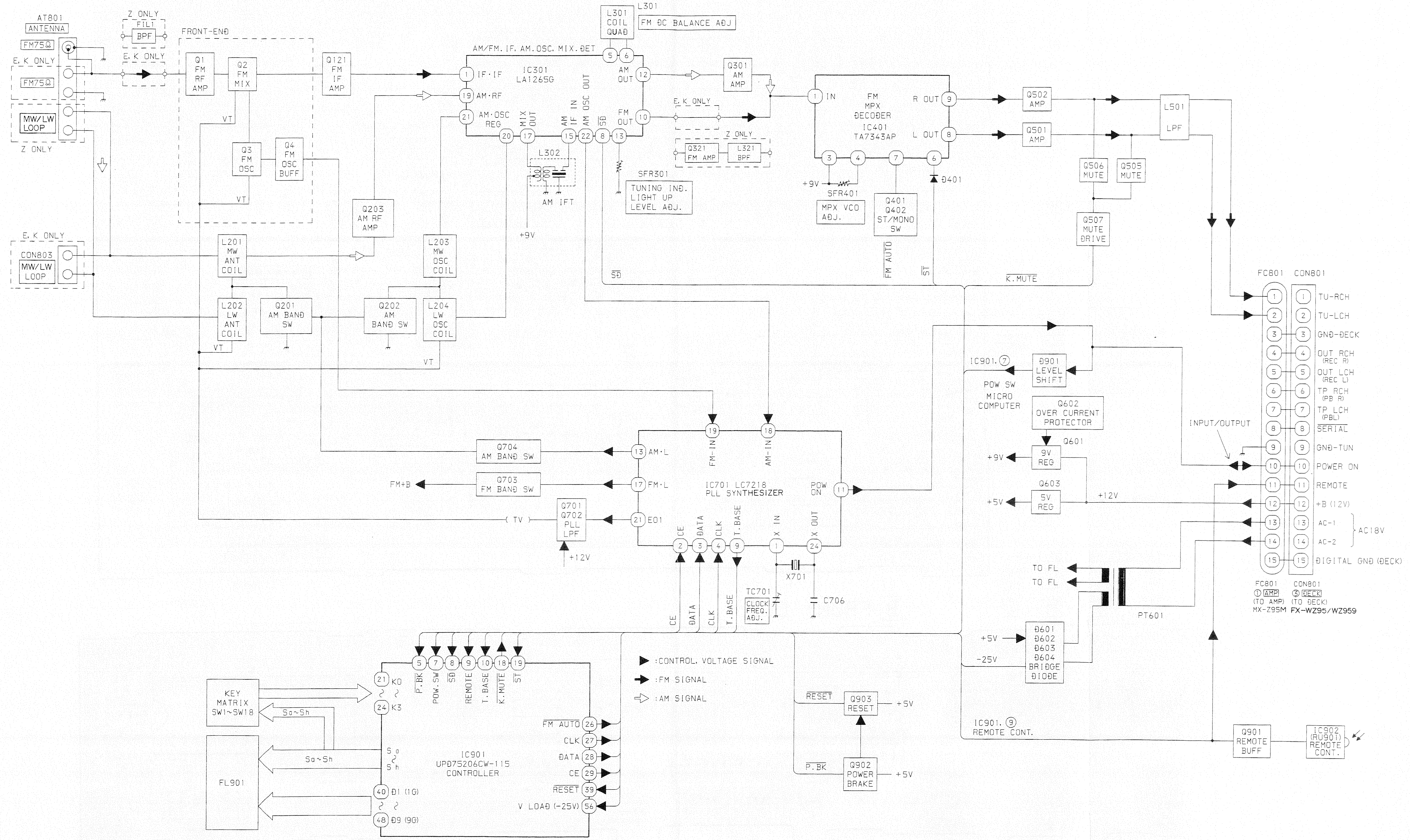
< LW SECTION > (E,K,Z only)

Sensitivity :	64 ± 5dB (at 144, 198, 290kHz)
Intermediate Frequency :	450kHz

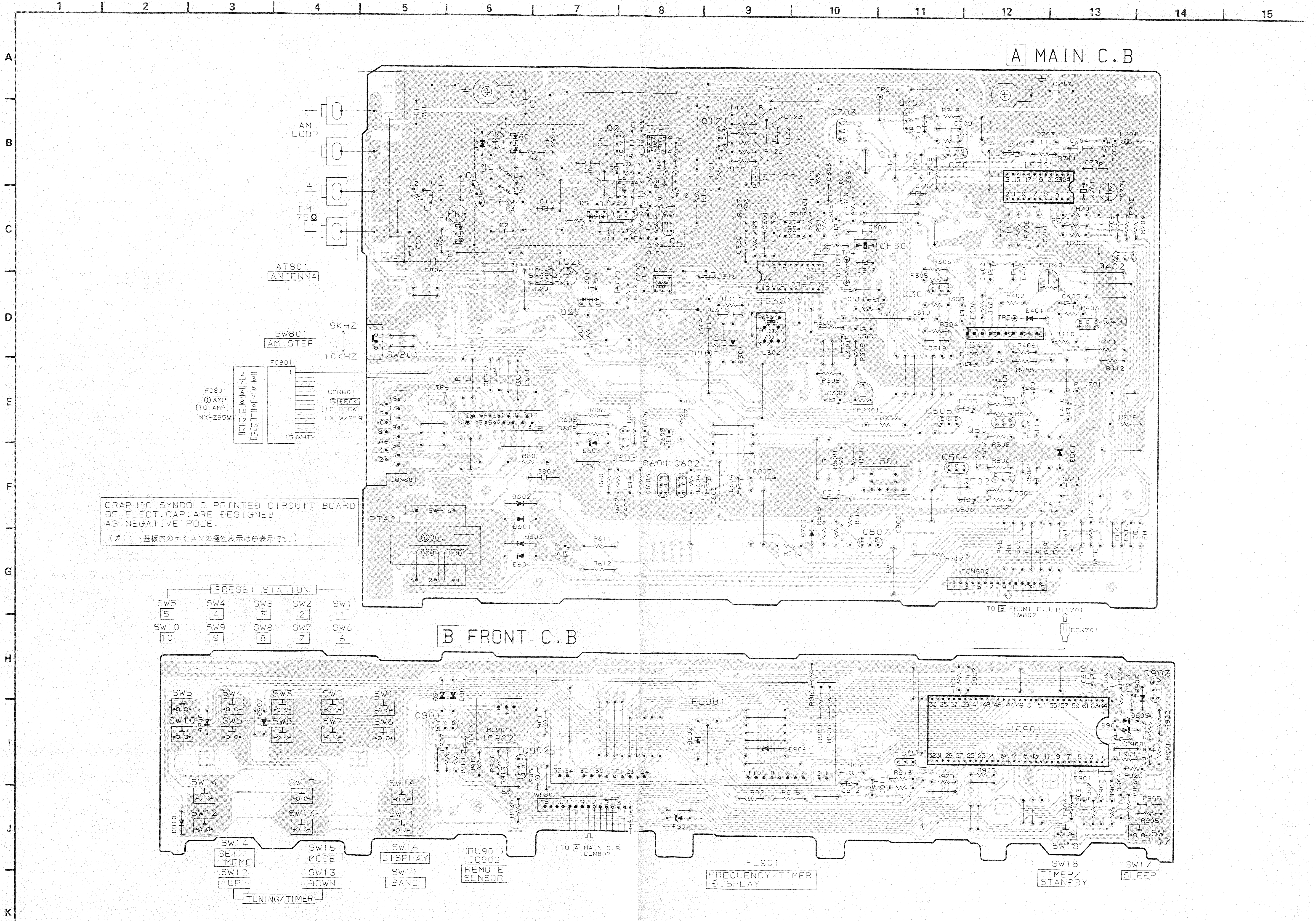
BLOCK DIAGRAM – 1 (TX – Z95YH)


AT801
ANTENNA
FM75Ω
AM LOOP
FRONT-END
Q1 FM RF AMP
Q2 FM MIX
Q3 FM OSC
Q4 FM OSC BUFF
VT
Q121 FM IF AMP
AM/FM. IF. AM.OSC. MIX.DET
L301 COIL QUAD
L301
FM DC BALANCE ADJ
IC301 LA1265G
IF·IF
AM·RF
AM·OSC
MIX OUT
AM IF IN
AM OSC OUT
SD
AM OUT
FM OUT
L302
AM IFT
+9V
SFR301
TUNING IND. LIGHT UP LEVEL ADJ.
Q301 AM AMP
FM MPX DECODER
IC401 TA7343AP
IN
R OUT
L OUT
+9V
SFR401
MPX VCO ADJ.
Q401 Q402 ST/MONO SW
D401
FM AUTO
ST
K.MUTE
Q502 AMP
Q501 AMP
L501 LPF
Q506 MUTE
Q505 MUTE
Q507 MUTE DRIVE
L201 AM ANT COIL
L203 AM OSC COIL
FC801
CON801
TU-RCH
TU-LCH
GND-DECK
OUT RCH (REC R)
OUT LCH (REC L)
TP RCH (PB R)
TP LCH (PBL)
SERIAL
GND-TUN
POWER ON
REMOTE
+B (12V)
AC-1
AC-2
AC18V
DIGITAL GND (DECK)
INPUT/OUTPUT
CF801 ① AMP (TO AMP) MX-Z95M
CON801 ③ DECK (TO DECK) FX-WZ95/WZ959
IC901. ⑦
POW SW
MICRO COMPUTER
D901 LEVEL SHIFT
Q602 OVER CURRENT PROTECTOR
Q601
9V REG
+9V
Q603
5V REG
+5V
+12V
TO FL
TO FL
PT601
+5V
-25V
D601 D602 D603 D604 BRIDGE DIODE
IC901. ⑨
REMOTE CONT.
Q901 REMOTE BUFF
IC902 (RU901) REMOTE CONT.
FM+B
Q703 BAND SW
FM·L
FM-IN
AM-IN
IC701 LC7218 PLL SYNTHESIZER
POW ON
TV
Q701 Q702 PLL LPF
+12V
EO1
CE
DATA
CLK
T.BASE
X IN
X OUT
X701
TC701 CLOCK FREQ. ADJ.
C706
KEY MATRIX SW1~SW18
Sa~Sh
FL901
KO
K3
P.BK
POW.SW
SD
REMOTE
T.BASE
K.MUTE
ST
IC901 UPD75206CW-115 CONTROLLER
Sa ~ Sh
D1 (1G)
D9 (9G)
FM AUTO
CLK
DATA
CE
RESET
V LOAD (-25V)
RESET
Q903 RESET
+5V
P.BK
Q902 POWER BRAKE
+5V
▶ :CONTROL. VOLTAGE SIGNAL
➡ :FM SIGNAL
⇨ :AM SIGNAL

BLOCK DIAGRAM - 2 (TX - Z95YE,YK,YZ)


AT801
ANTENNA
FM75Ω
E, K ONLY
FM75Ω
MW/LW LOOP
Z ONLY
Z ONLY
FILT
BPF
E, K ONLY
FRONT-END
Q1 FM RF AMP
Q2 FM MIX
Q3 FM OSC
Q4 FM OSC BUFF
VT
Q121 FM IF AMP
L301 COIL QUAD
L301
FM DC BALANCE ADJ
AM/FM, IF, AM, OSC, MIX, DET
IC301 LA1265G
IF·IF
AM·RF
AM·OSC REG
MIX OUT
AM IF IN
AM OSC OUT
SD
AM OUT
FM OUT
L302
AM IFT
+9V
SFR301
TUNING IND. LIGHT UP LEVEL ADJ.
Q301 AM AMP
E, K ONLY
Z ONLY
Q321 FM AMP
L321 BPF
IN
FM MPX DECODER IC401 TA7343AP
R OUT
L OUT
+9V
SFR401
MPX VCO ADJ.
Q401 Q402 ST/MONO SW
D401
FM AUTO
ST
Q502 AMP
Q501 AMP
L501 LPF
Q506 MUTE
Q505 MUTE
Q507 MUTE DRIVE
K.MUTE
SD
Q203 AM RF AMP
E, K ONLY
CON803
MW/LW LOOP
L201 MW ANT COIL
L203 MW OSC COIL
L202 LW ANT COIL
Q201 AM BAND SW
Q202 AM BAND SW
L204 LW OSC COIL
VT
FC801 CON801
TU-RCH
TU-LCH
GND-DECK
OUT RCH (REC R)
OUT LCH (REC L)
TP RCH (PB R)
TP LCH (PBL)
SERIAL
GND-TUN
POWER ON
REMOTE
+B (12V)
AC-1
AC-2
AC18V
DIGITAL GND (DECK)
INPUT/OUTPUT
FC801 ① AMP (TO AMP) MX-Z95M
CON801 ③ DECK (TO DECK) FX-WZ95/WZ959
IC901 ⑦
D901 LEVEL SHIFT
POW SW MICRO COMPUTER
Q602 OVER CURRENT PROTECTOR
Q601
+9V
9V REG
Q603
+5V
5V REG
+12V
TO FL
TO FL
PT601
Q704 AM BAND SW
Q703 FM BAND SW
FM+B
Q701 Q702 PLL LPF
TV
+12V
IC701 LC7218 PLL SYNTHESIZER
AM·L
FM·L
EO1
FM-IN
AM-IN
POW ON
CE
DATA
CLK
T.BASE
X IN
X OUT
X701
TC701 CLOCK FREQ. ADJ.
C706
+5V
-25V
D601 D602 D603 D604 BRIDGE DIODE
P.BK
POW.SW
SD
REMOTE
T.BASE
K.MUTE
ST
KEY MATRIX SW1~SW18
Sa~Sh
Sa~Sh
FL901
K0
K3
Sa ~ Sh
IC901 UPD75206CW-115 CONTROLLER
D1 (1G)
D9 (9G)
FM AUTO
CLK
DATA
CE
RESET
V LOAD (-25V)
:CONTROL, VOLTAGE SIGNAL
:FM SIGNAL
:AM SIGNAL
RESET
Q903 RESET
+5V
P.BK
Q902 POWER BRAKE
+5V
IC901 ⑨ REMOTE CONT.
Q901 REMOTE BUFF
IC902 (RU901) REMOTE CONT.

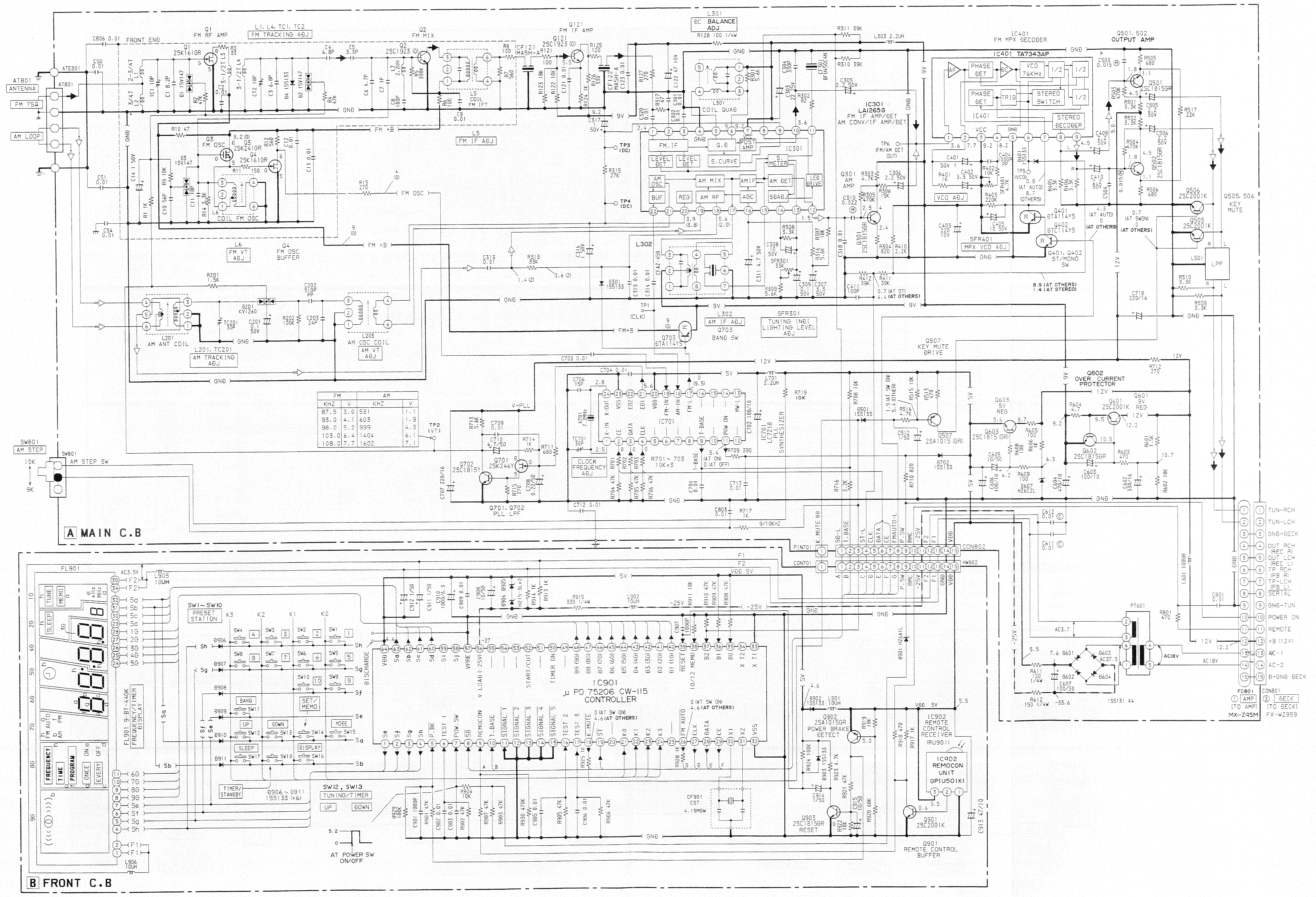
WIRING — 1 (TX — Z95YH)



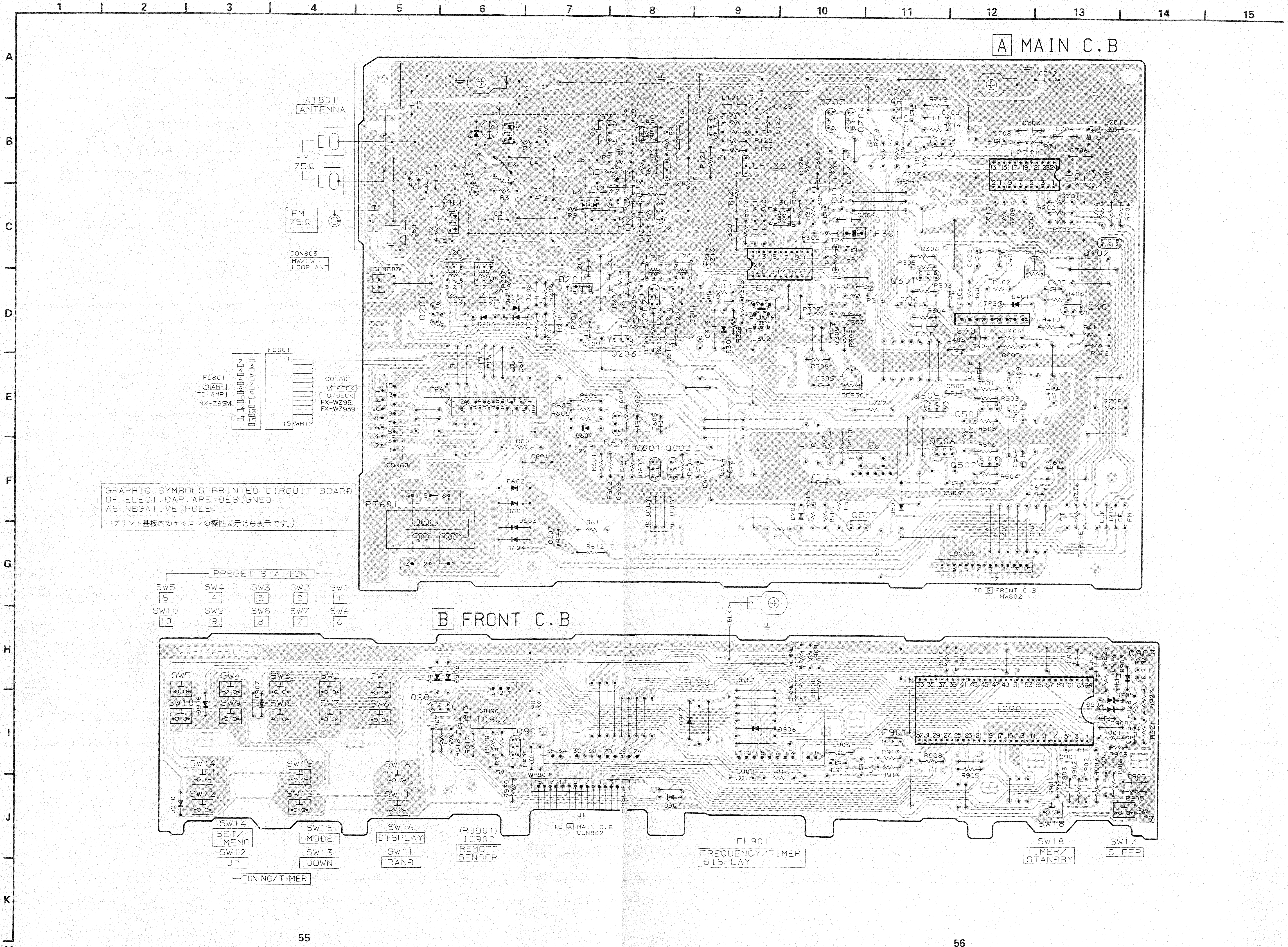
A MAIN C.B
B FRONT C.B
AM LOOP
FM 75Ω
AT801 ANTENNA
SW801 AM STEP
9KHZ
10KHZ
FC801 ① AMP (TO AMP) MX-Z95M
CON801 ⑤ DECK (TO DECK) FX-WZ959
PT601
IC701
IC301
IC401
CF122
CF301
SFR401
SFR301
L501
TO B FRONT C.B PIN701 HW802
CON701
CON802
PRESET STATION
SW5 5
SW4 4
SW3 3
SW2 2
SW1 1
SW10 10
SW9 9
SW8 8
SW7 7
SW6 6
FL901
IC901
IC902
Q903
CF901
WH802
TO A MAIN C.B CON802
SW14 SET/MEMO
SW15 MODE
SW16 DISPLAY
SW12 UP
SW13 DOWN
SW11 BAND
TUNING/TIMER
(RU901) IC902 REMOTE SENSOR
FL901 FREQUENCY/TIMER DISPLAY
SW18 TIMER/STANDBY
SW17 SLEEP

GRAPHIC SYMBOLS PRINTED CIRCUIT BOARD OF ELECT.CAP. ARE DESIGNED AS NEGATIVE POLE.
（プリント基板内のケミコンの極性表示は⊖表示です。）

SCHEMATIC DIAGRAM－1 (TX－Z95YH)


A MAIN C.B
B FRONT C.B
AT801 ANTENNA
FM 75Ω
AM LOOP
FRONT END
Q1 FM RF AMP
L1, L4, TC1, TC2 FM TRACKING ADJ
Q2 FM MIX
Q121 FM IF AMP
L301 BC BALANCE ADJ
IC401 FM MPX DECODER
IC401 TA7343AP
Q501, 502 OUTPUT AMP
Q3 FM OSC
Q4 FM OSC BUFFER
L5 FM IF ADJ
L6 FM VT ADJ
COIL FM OSC
COIL FM IFT
COIL QUAD
IC301 LA1265G FM IF AMP/DET AM CONV/IF AMP/DET
PHASE DET
VCO 76KHz
STEREO SWITCH
STEREO DECODER
TRIG
VCO ADJ
SFR401 MPX VCO ADJ
Q401, Q402 ST/MONO SW
Q505, 506 KEY MUTE
LPF
L201 AM ANT COIL
L201, TC201 AM TRACKING ADJ
L203 AM OSC COIL
AM VT ADJ
L302 AM IF ADJ
Q703 BAND SW
SFR301 TUNING INDI LIGHTING LEVEL ADJ
Q507 KEY MUTE DRIVE
Q602 OVER CURRENT PROTECTOR
Q603 5V REG
Q601 9V REG
IC701 LC7218 PLL SYNTHESIZER
CLOCK FREQUENCY ADJ
Q701, Q702 PLL LPF
TP2 (VT)
SW801 AM STEP
AM STEP SW
PIN701
CON701
CON802
HW802
FL901
FL901 9-BT-44GK FREQUENCY/TIMER DISPLAY
SW1～SW10 PRESET STATION
IC901 µPD 75206 CW-115 CONTROLLER
SW12, SW13 TUNING/TIMER
AT POWER SW ON/OFF
Q902 2SA1015GR POWER BRAKE DETECT
Q903 2SC1815GR RESET
IC902 REMOTE CONTROL RECEIVER (RU901)
IC402 REMOCON UNIT GP1U50IX1
Q901 2SC2001K REMOTE CONTROL BUFFER
PT601
AC18V
CON801
FC801
AMP (TO AMP) MX-Z95M
DECK (TO DECK) FX-WZ959
TUN-RCH
TUN-LCH
GND-DECK
OUT RCH (REC R)
OUT LCH (REC L)
TP RCH (PB R)
TP-LCH (PB L)
SERIAL
GND-TUN
POWER ON
REMOTE
+B (12V)
AC-1
AC-2
D-GND DECK

FM		AM	
KHZ	V	KHZ	V
87.5	3.0	531	1.1
93.0	4.1	603	1.9
98.0	5.2	999	4.3
103.0	6.4	1404	6.1
108.0	7.7	1602	7.1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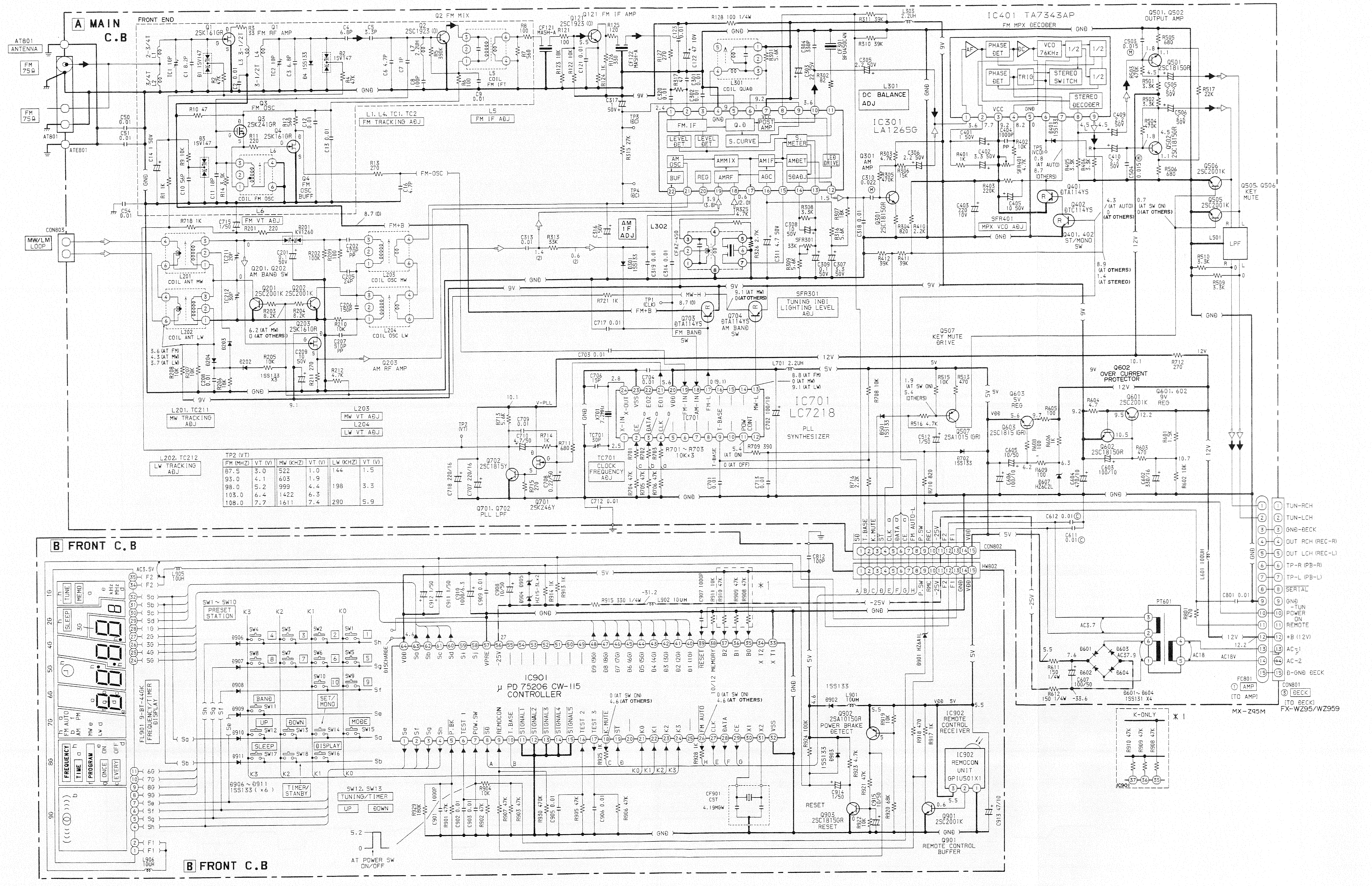
H
I
J
K
A MAIN C.B
AT801 ANTENNA
FM 75Ω
FM 75Ω
CON803 MW/LW LOOP ANT
FC801 ① AMP (TO AMP) MX-Z95M
CON801 ③ DECK (TO DECK) FX-WZ95 FX-WZ959
PT601
IC701
IC301
IC401
CON802
TO B FRONT C.B HW802
BLK
PRESET STATION
SW5 5
SW4 4
SW3 3
SW2 2
SW1 1
SW10 10
SW9 9
SW8 8
SW7 7
SW6 6
B FRONT C.B
IC901
FL901
(RU901) IC902
WH802
TO A MAIN C.B CON802
SW14 SET/MEMO
SW12 UP
TUNING/TIMER
SW15 MODE
SW13 DOWN
SW16 DISPLAY
SW11 BAND
(RU901) IC902 REMOTE SENSOR
FL901 FREQUENCY/TIMER DISPLAY
SW18 TIMER/STANDBY
SW17 SLEEP

GRAPHIC SYMBOLS PRINTED CIRCUIT BOARD OF ELECT.CAP.ARE DESIGNED AS NEGATIVE POLE.
(プリント基板内のケミコンの極性表示は⊖表示です。)

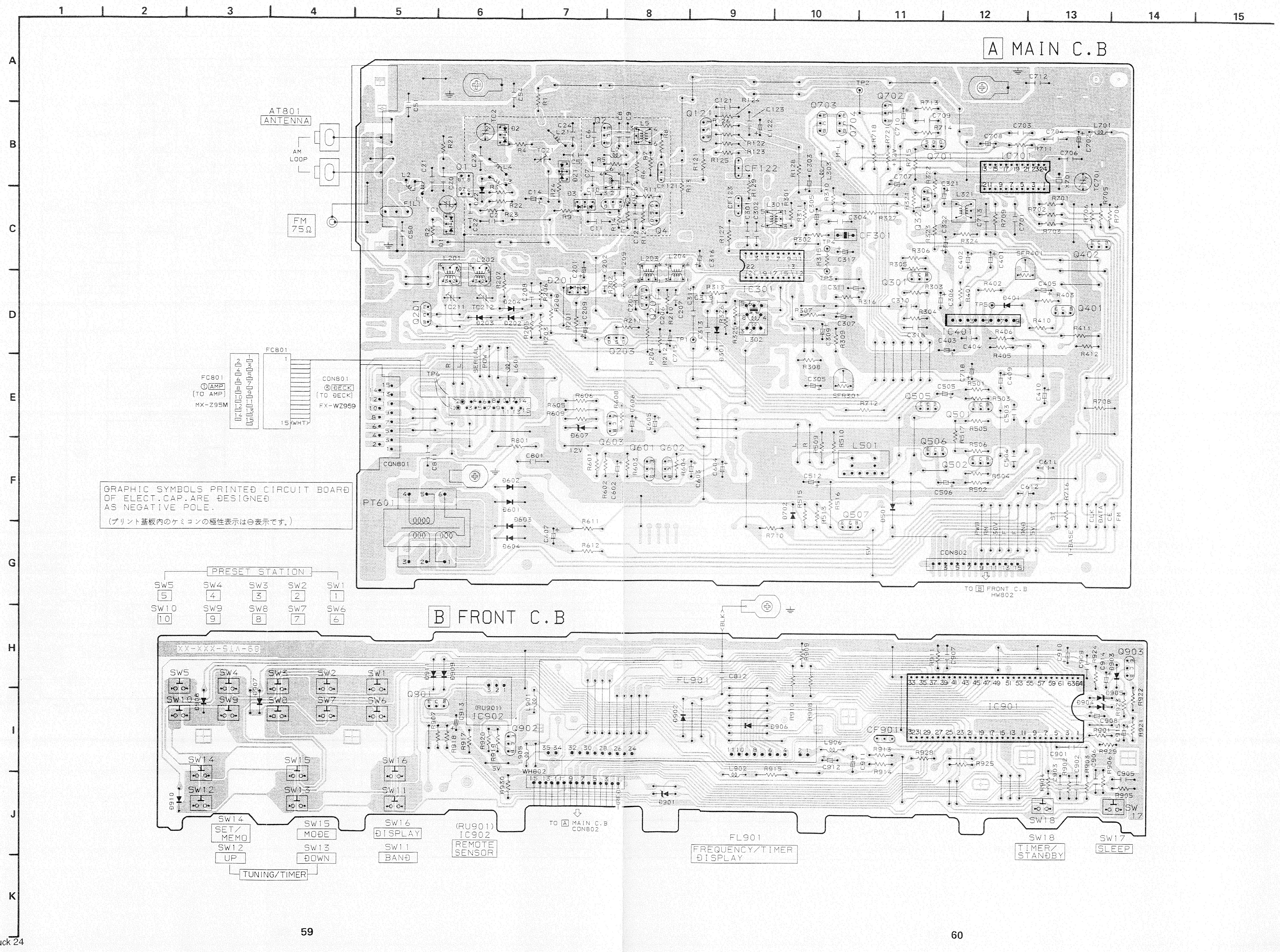
SCHEMATIC DIAGRAM — 2 (TX — Z95YE,YK)


A MAIN C.B
FRONT END
AT801 ANTENNA
FM 75Ω
FM 75Ω
AT801
ATE801
CON803
MW/LM LOOP
Q1 2SK161GR
Q1 33 FM RF AMP
Q2 FM MIX
Q2 2SC1923 (O)
Q121 FM IF AMP
Q121 2SC1923 (O)
CF121 MASH-A
CF122 MASH-A
L5 COIL FM IFT
L1, L4, TC1, TC2 FM TRACKING ADJ
L5 FM IF ADJ
Q3 FM OSC
Q3 2SK241GR
Q4 2SK161GR
Q4 FM OSC BUFF
L6 COIL FM OSC
FM-OSC
FM VT ADJ
D201 KV1260
L201 COIL ANT MW
L202 COIL ANT LW
L203 COIL OSC MW
L204 COIL OSC LW
Q201, Q202 AM BAND SW
Q201 2SC2001K
Q202 2SC2001K
Q203 2SK161GR
Q203 AM RF AMP
L201, TC211 MW TRACKING ADJ
L203 MW VT ADJ
L204 LW VT ADJ
L202, TC212 LW TRACKING ADJ
L301 COIL QUAD
L301 DC BALANCE ADJ
IC301 LA1265G
FM. IF
Q.D
POST AMP
LEVEL DET
S.CURVE
S. METER
AM OSC
AMMIX
AMIF
AMDET
LED DRIVE
BUF
REG
AMRF
AGC
SDADJ
AM IF ADJ
L302
CFAZ-450
SFR301
Q301 AM AMP
Q301 2SC1815GR
SFR301 TUNING INDI LIGHTING LEVEL ADJ
IC401 TA7343AP
FM MPX DECODER
PHASE DET
VCO 76KHz
1/2
TRIG
STEREO SWITCH
STEREO DECODER
SFR401 MPX VCO ADJ
Q401 DTA114YS
Q402 DTC114YS
Q401, 402 ST/MONO SW
Q501, Q502 OUTPUT AMP
Q501 2SC1815GR
Q502 2SC1815GR
Q505, Q506 KEY MUTE
Q505 2SC2001K
Q506 2SC2001K
L501 LPF
Q507 KEY MUTE DRIVE
Q507 2SA1015 (GR)
Q602 OVER CURRENT PROTECTOR
Q601, 602 REG
Q601 2SC2001K
Q602 2SC1815GR
Q603 5V REG
Q603 2SC1815 (GR)
Q703 DTA114YS
Q703 FM BAND SW
Q704 DTA114YS
Q704 AM BAND SW
IC701 LC7218
PLL SYNTHESIZER
X701 7.2MHz
TC701 CLOCK FREQUENCY ADJ
Q701, Q702 PLL LPF
Q701 2SK246Y
Q702 2SC1815Y
TP1 (CLK)
TP2 (VT)
TP3 (DC)
TP4 (DC)
TP5 (VCO)
CON802
HW802
TUN-RCH
TUN-LCH
GND-DECK
OUT RCH (REC-R)
OUT LCH (REC-L)
TP-R (PB-R)
TP-L (PB-L)
SERIAL
GND -TUN
POWER ON
REMOTE
+B (12V)
AC~1
AC-2
D-GND DECK
FC801
AMP
(TO AMP)
CON801
DECK
(TO DECK)
MX-Z95M
FX-WZ95/WZ959
PT601
D601~D604 1SS131 X4
B FRONT C.B
IC901
μ PD 75206 CW-115
CONTROLLER
SW1~SW10 PRESET STATION
BAND
SET/MONO
UP
DOWN
MODE
SLEEP
DISPLAY
TIMER/STANBY
SW12, SW13 TUNING/TIMER
D906~D911 1SS133 (×6)
FL901 9-BT-44GK FREQUENCY/TIMER DISPLAY
TUNE
MEMO
SLEEP
FREQUENCY
TIME
PROGRAM
ONCE
EVERY
OFF
Q902 2SA1015GR
Q902 POWER BRAKE DETECT
Q903 2SC1815GR RESET
IC902 REMOTE CONTROL RECEIVER
IC902 REMOCON UNIT GP1U501X1
Q901 2SC2001K
Q901 REMOTE CONTROL BUFFER
CF901 CST 4.19MGW
AT POWER SW ON/OFF
K-ONLY
*1

TP2 (VT)

FM (MHZ)	VT (V)	MW (KHZ)	VT (V)	LW (KHZ)	VT (V)
87.5	3.0	522	1.0	144	1.5
93.0	4.1	603	1.9		
98.0	5.2	999	4.4	198	3.3
103.0	6.4	1422	6.3		
108.0	7.7	1611	7.4	290	5.9

WIRING – 3 (TX – Z95YZ)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C
D
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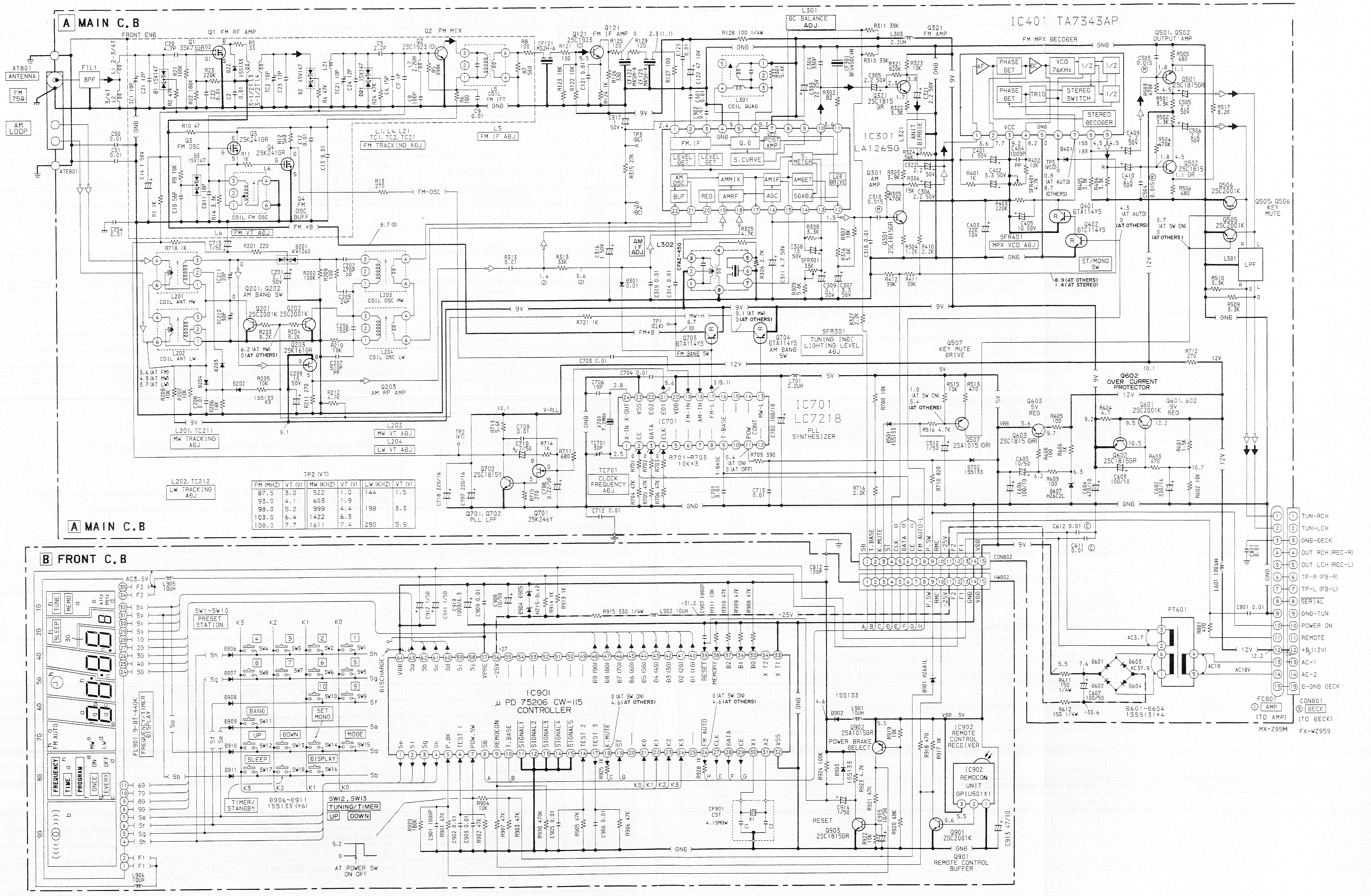
G
H
I
J
K
A MAIN C.B
AT801
ANTENNA
AM
LOOP
FM
75Ω
FC801
① AMP
(TO AMP)
MX-Z95M
CON801
⑤ DECK
(TO DECK)
FX-WZ959
CON801
PT601
IC301
IC401
IC701
CON802
TO B FRONT C.B
HW802
PRESET STATION
SW5
SW4
SW3
SW2
SW1
SW10
SW9
SW8
SW7
SW6
B FRONT C.B
FL901
IC901
IC902
WH802
TO A MAIN C.B
CON802
SW14
SET/
MEMO
SW12
UP
TUNING/TIMER
SW15
MODE
SW13
DOWN
SW16
DISPLAY
SW11
BAND
(RU901)
IC902
REMOTE
SENSOR
FL901
FREQUENCY/TIMER
DISPLAY
SW18
TIMER/
STANDBY
SW17
SLEEP

GRAPHIC SYMBOLS PRINTED CIRCUIT BOARD OF ELECT.CAP. ARE DESIGNED AS NEGATIVE POLE.
(プリント基板内のケミコンの極性表示は⊖表示です。)

SCHEMATIC DIAGRAM – 3 (TX – Z95YZ)

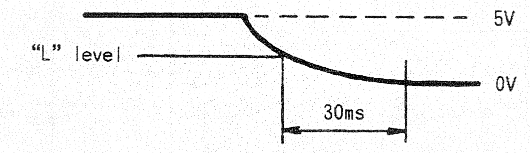

A MAIN C.B
FRONT END
Q1 FM RF AMP
Q2 FM MIX
Q121 FM IF AMP
L301 BC BALANCE ADJ.
Q321 FM AMP
IC401 TA7343AP
FM MPX DECODER
Q501, Q502 OUTPUT AMP
AT801 ANTENNA
FM 75Ω
AM LOOP
FIL1 BPF
Q3 FM OSC
Q4 FM OSC BUFF
COIL FM OSC
L6 FM VT ADJ
L1, L4, L21 TC1, TC2, TC21 FM TRACKING ADJ
L5 FM IF ADJ
COIL FM IFT
L301 COIL QUAD
IC301 LA1265G
FM. IF
Q.D
POST AMP
LEVEL DET
S.CURVE
S METER
AM OSC
AMMIX
AMIF
AMDET
LED DRIVE
BUF
REG
AMRF
AGC
SDADJ
AM IF ADJ
L302
SFR301
PHASE DET
VCO 76KHz
1/2
TRIG
STEREO SWITCH
STEREO DECODER
SFR401 MPX VCO ADJ
ST/MONO SW
Q401 DTA114YS
Q402 DTC114YS
Q505, Q506 KEY MUTE
L501 LPF
L201 COIL ANT MW
L202 COIL ANT LW
L203 COIL OSC MW
L204 COIL OSC LW
Q201, Q202 AM BAND SW
Q203 AM RF AMP
L201, TC211 MW TRACKING ADJ
L202, TC212 LW TRACKING ADJ
L203 MW VT ADJ
L204 LW VT ADJ
Q703 DTA114YS FM BAND SW
Q704 DTA114YS AM BAND SW
SFR301 TUNING INDI LIGHTING LEVEL ADJ
Q507 KEY MUTE DRIVE
Q602 OVER CURRENT PROTECTOR
Q603 5V REG
Q601, 602 9V REG
IC701 LC7218 PLL SYNTHESIZER
TC701 CLOCK FREQUENCY ADJ
Q701, Q702 PLL LPF
Q701 2SK246Y
Q702 2SC1815Y
A MAIN C.B
B FRONT C.B
CON802
HW802
CON801 (TO DECK)
FC801 AMP (TO AMP)
MX-Z95M
FX-WZ959
TUN-RCH
TUN-LCH
GND-DECK
OUT RCH (REC-R)
OUT LCH (REC-L)
TP-R (PB-R)
TP-L (PB-L)
SERIAL
GND-TUN
POWER ON
REMOTE
+B (12V)
AC-1
AC-2
D-GND DECK
PT601
D601~D604 1SS131×4
SW1~SW10 PRESET STATION
BAND
SET MONO
UP
DOWN
MODE
SLEEP
DISPLAY
TIMER/STANDBY
D906~D911 1SS133 (×6)
SW12, SW13 TUNING/TIMER UP DOWN
AT POWER SW ON OFF
FL901 9-BT-44GK FREQUENCY/TIMER DISPLAY
IC901 μPD75206 CW-115 CONTROLLER
CF901 CST 4.19MGW
Q902 2SA1015GR POWER BRAKE DETECT
IC902 REMOTE CONTROL RECEIVER
IC902 REMOCON UNIT GP1U501X1
Q901 2SC2001K
Q901 REMOTE CONTROL BUFFER
Q903 2SC1815GR
RESET

TP2 (VT)

FM (MHZ)	VT (V)	MW (KHZ)	VT (V)	LW (KHZ)	VT (V)
87.5	3.0	522	1.0	144	1.5
93.0	4.1	603	1.9		
98.0	5.2	999	4.4	198	3.3
103.0	6.4	1422	6.3		
108.0	7.7	1611	7.4	290	5.9

IC DESCRIPTION (TX—Z95)

IC,UPD75206CW—115

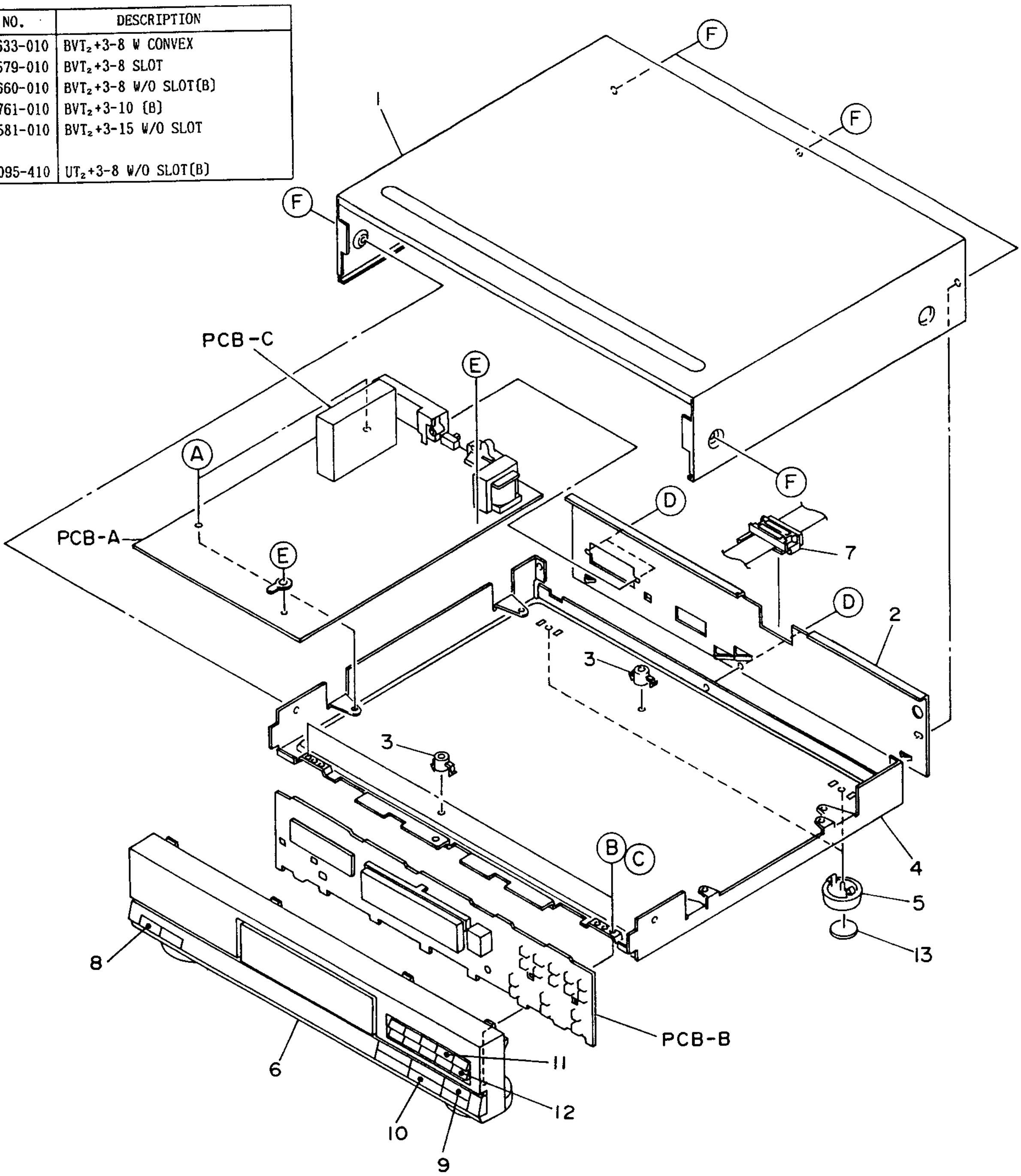
Pin No.	Pin Name	I/O	Description
1 ~ 4	Se ~ Sh	O	Segment signal outputs and key scan signal outputs. Active "H".
5	$\overline{\text{PBK}}$ (Power Brake)	I	Input to detect a power failure. When this pin continues to be "L" for 30ms at more, a power failure is detected (the unit enters the power backup state). 
6	TEST 1	I	Test mode setting inputs.
16	TEST 2		
17	TEST 3		
7	POW SW	I	Power control input. The power is turned on and off alternately (the rise is detected) every time the power switch is pressed. When the power is turned on, PLL (LC7218), Pin 11 POW goes "H".
8	$\overline{\text{SD}}$	I	Input to stop auto scanning. Active "L". ◦ This input is not accepted during power off. ◦ This input lights "TUNE". ◦ SD is detected every 5ms during auto scanning, and when 4 "L" pulses are counted, auto scanning is stopped. ◦ SD is not detected during manual tuning.
9	REMOCON	I	Remote control serial data input. Active "H" (the rise is detected)
10	T. BASE	I	Receives 8Hz from the PLL (LC7218) as a time base clock signal.
11 ~ 15	$\overline{\text{SIGNAL 1}}$ ~ $\overline{\text{SIGNAL 5}}$	—	Ground.
18	$\overline{\text{K. MUTE}}$	O	Outputs a muting signal when any key is operated. Active "L".
19	$\overline{\text{ST}}$	I	Input to light the STEREO indicator. ◦ This input is not accepted when power is off.
20	——	—	Unused.
21 ~ 24	K0 ~ K3	I	Auto scanning inputs.
25	——	—	Unused.
26	$\overline{\text{FM AUTO}}$	O	Outputs a signal depending on the mode selected by the MODE key during FM reception. Active "L" when the AUTO indicator lights. ◦ IF the AUTO indicator changes when a frequency is selected in timer programming, the output is the channel being received.
27	CLK	O	Output ports to transfer serial data to the PLL (LC7218). Active "H".
28	DATA		
29	CE		
30	X_1	—	A ceramic oscillator which generates a main system clock signal (4.19MHz).
31	X_2		
32	VSS	—	Ground.
33	XT_1	—	Unused (connected to ground).
34	XT_2	—	Unused.
35	B_0	I	Inputs to select the frequency range, etc. accordng to the destination to which the unit is to be shipped, using 3 bits. Pin \ Destination: H, U, E,Z, K B_0: H, L, H, H — H: HIGH (pull-up) B_1: H, L, L, L — L: LOW (pull-down) B_2: *, H, H, L — *: Changed by a switch
36	B_1		
37	B_2		
38	10/12 MEMORY	I	Input to select the number of preset memories 10 or 12. "L" input assigns 10 memories and "H" input assigns 12 memories.
39	$\overline{\text{RESET}}$	I	System reset input.
40 ~ 48	D_1 ~ D_9	O	Digit signal outputs. Active "H".
49	——	—	Unused.
50	TIMER ON	—	Unused.
51	——	—	Unused.
52	START/CUT	—	Unused.
53	——	—	Unused.
54	——	—	Unused.
55	——	—	Unused.
56	VLOAD	I	Power supply pin of the output buffer in the FL display.
57	VPRE	I	For connection of pull-down resistor of the FL display.
58	Sj	O	Sj, Si : Unused. Segment signal outputs and key scan signal outputs. Active "H".
59	Si		
60	Sd		
61	Sc		
62	Sb		
63	Sa		
64	VDD	—	Power supply pin. 5V±10%

IC,LC7218

Pin No.	Pin Name	I/O	Description
1 24	X IN X OUT	—	Clock oscillator connection pins. A 7.2MHz crystal oscillator is connected.
2 3 4	CE DATA CLK	I	When a key is operated, signals are transferred from the CPU. Active "H".
5 ~ 8	——	—	Unused.
9	T-BASE	O	Outputs an 8Hz signal. Transfers it to the CPU as a time base clock signal.
10	——	—	Unused.
11	POW ON	O	Power control output. Outputs "H" during power on.
12	——	—	Unused.
13	MW(AM)-L	O	Outputs "L" when an MW(AM) broadcast is received. Unused.
14	——	—	Unused.
15 16	——	—	Unused.
17	FM-L	O	Outputs "L" when an FM broadcast is received.
18	AM IN	I	AM local oscillation input.
19	FM IN	I	FM local oscillation input.
20	VDD	—	Power supply pin. 5V±10%
21	EO_1	O	PLL error output.
22	EO_2	—	Unused.
23	VSS	—	Ground pin.

EXPLODED VIEW (TX—Z95)

REF.NO.	PART NO.	DESCRIPTION
A	87-067-633-010	BVT_2+3-8 W CONVEX
B	87-067-579-010	BVT_2+3-8 SLOT
C	87-067-660-010	BVT_2+3-8 W/O SLOT(B)
D	87-067-761-010	BVT_2+3-10 (B)
E	87-067-581-010	BVT_2+3-15 W/O SLOT
F	87-743-095-410	UT_2+3-8 W/O SLOT(B)



MECHANICAL PARTS LIST (TX—Z95)

PART NO. CHANGED TO	REF. NO.	PART NO.	DESCRIPTION	COMMON MODEL	Q, TY
	1	★89-VT5-003-010	CABINET, STEEL		1
	2	★80-VT5-021-019	PANEL, REAR(H)	*	1
	2	★80-VT5-023-019	PANEL, REAR(E)	*	1
	2	★80-VT5-024-019	PANEL, REAR(K)	*	1
	2	★80-VT5-025-019	PANEL, REAR(Z)	*	1
	3	---	HOLDER, P.C.B		2
	4	---	CHASSIS, AMP TU-G		1
	5	★87-085-213-019	FOOT, H12.5		2
	6	★09-047-655-010	CABINET FRONT ASSY	*	1
	7	★89-VT5-202-010	CORD, BUSHING		1
	8	★80-VT5-016-010	BUTTON, SLEEP	*	1
	9	★80-VT5-017-010	BUTTON, SET	*	1
	10	★80-VT5-018-010	BUTTON, UP DOWN	*	1
	11	★80-VT5-014-010	BUTTON, TUNING PRE1	*	1
	12	★80-VT5-015-010	BUTTON, TUNING PRE2	*	1
	13	★89-VW5-212-010	FELT, FOOT		2

■ SPEAKER LIST (SX－Z959／Z95)

PART NO. CHANGED TO	REF. NO.	PART NO.	DESCRIPTION	COMMON MODEL	Q, TY
	1	★ 80-VS5-026-010	GRILL FRAME ASSY (E,K,Z) (Z95)	※	2
	1	★ 81-672-026-010	GRILL FRAME ASSY (H) (Z959)		2
	2	★ 80-VS5-011-010	PANEL W (E,K,Z) (Z95)	※	2
	2	★ 80-VS5-011-010	PANEL W (H) (Z959)	※	2
	3	★ 80-VS5-012-010	PANEL M ASSY (E,K,Z) (Z95)	※	2
	3	★ 80-VS5-012-010	PANEL M ASSY (H) (Z959)	※	2
	4	★ 80-VS5-004-010	PANEL T ASSY (E,K,Z) (Z95)	※	2
	4	★ 80-VS5-016-010	PANEL T ASSY (H) (Z959)	※	2
	5	★ 80-VS5-023-010	SPEC. LABEL (E,K,Z) (Z95)	※	2
	5	★ 80-VS5-024-010	SPEC. LABEL (H) (Z959Y)	※	2
	5	★ 80-VS5-025-010	SPEC. LABEL (HJ) (Z959YJ)	※	2
	6	80-VS5-604-010	SPEAKER W (E,K,Z) (Z95)	※	2
	6	80-VS5-606-010	SPEAKER W (H) (Z959)	※	2
	7	80-VS5-609-010	SPEAKER T	※	2
	8	89-MS7-605-010	SPEAKER CERAMIC		2
	9	81-672-612-010	SPEAKER CORD (E,K,Z) (Z95)		2
	10	★ 80-VS5-614-010	CAP,ELECT 3.3UF (E,K,Z) (Z95)	※	2
	11	★ 80-VS5-613-010	INDUCTOR 0.3mH (E,K,Z) (Z95)	※	2
	12	★ 81-654-605-010	TERMINAL ASSY (H) (Z959)		2

■ ACCESSORIES／PACKAGE LIST

PART NO. CHANGED TO	REF. NO.	PART NO.	DESCRIPTION	COMMON MODEL	Q, TY
	1	★ 80-VR5-904-019	INSTRUCTION BOOKLET, MH (H)	※	1
	1	★ 80-VR5-905-019	INSTRUCTION BOOKLET, ME (E,K,Z)	※	1
	2	★ 81-653-645-010	AM-LOOP ANT (6T) NC (H,Z)		1
	2	★ 81-653-647-010	AM-LOOP ANT (6T) CON (E,K)		1
	3	★ 81-748-632-010	FEEDER ANT,FM N (H,E,K)		1
	4	★ 87-043-106-019	FM WIRE ANT (Z)		1
	5	★ 87-009-724-010	PLUG, ADAPTOR IR39 (AH)		1
	5	★ 87-009-725-010	PLUG, ADAPTOR IR40 (H)		1
	6	★ 80-VR5-010-010	REMOTE UNIIT RC-T95MFYB (H)	※	1
	6	★ 80-VR5-011-010	REMOTE UNIIT RC-T95MLYB (E,K,Z)	※	1